5ESS® Switch
Input Messages
5E15 and Later Software Releases

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1. INTRODUCTION

1.1 PURPOSE

The *5ESS®* Switch Input Messages document describes the input messages (IMs) available for use on the *5ESS®* switch input channels. This document is a reference guide for *5ESS®* switch support personnel. This document is available in electronic media only.

The messages in this document and its updates represent complete documentation for the 5E15 and later software releases.

The *5ESS®* switch IMs are used to control, maintain, and monitor the switching system, including the processors, peripherals, and other software. For example, the messages can direct the system to:

- Execute diagnostic and exercise programs and report the results.
- Perform tests and report the results.
- Report the status of various subsystems.
- Report traffic information.
- Enter translation information into memory.
- Restore units to service or remove units from service.

Because of the many available options, some IMs are complex. Before using these particular messages, become familiar with conventions used in this document to describe them (refer to the User Guidelines section).

Some messages may adversely affect service. These messages show a **WARNING** appearing opposite the key block. Use these messages only during periods of light traffic. Before using one of these messages, read thoroughly the manual page containing the message description.

1.2 UPDATE INFORMATION

This document is being updated to include documentation for the 5E21(1) software release of the *5ESS®* switch. It also includes numerous enhancements and responses to customer requests for more information.

The following messages/appendixes have been updated:

```
APP:COMMAND-GRP
APP:RANGES
APP:TARGETS-B
APP:TRFC-SECTION
ALW:TFTP
CFR:SPRMEM-G
CLR:SIPDMP
COPY:UT-PSUPH-C
DUMP:UT-PSUPH-C
EXC:UT-PSUPH-C
IF:UT-PSUPH-C
INH:TFTP
OP:CONV-EXT-C
OP:SIPDMP
OP:ST-PSUCOM
OP:TFTP
ST:NIPMP-G
```

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```
TST:IPNET
TST:PHPATH-B
TST:TRK-C
WHEN:UT-PSUPH-C
```

1.2.1 SUPPORTED SOFTWARE RELEASES

In accordance with the *5ESS®* Switch Software Support Policy, the 5E14 software release is rated Discontinued Availability (DA) as of September 1, 2004. The information supporting 5E14 and earlier is being removed over time, instead of concurrently, from all documentation.

If you are supporting offices that use a software release prior to 5E15 and you have a need for the information that is being removed, retain the earlier copy of the CD-ROM.

The purpose of this documentation is to facilitate early dissemination of information. Its contents are subject to change pursuant to the general non-disclosure agreements between Lucent Technologies and *5ESS®* switch owners for the purpose of planning. To the best of Lucent Technologies's knowledge, the information contained in this document is accurate and complete as of the date of publication. HOWEVER, LUCENT TECHNOLOGIES EXPRESSLY DISCLAIMS ANY WARRANTY AS TO ACCURACY OR COMPLETENESS NOR DOES LUCENT TECHNOLOGIES ASSUME ANY RESPONSIBILITY FOR THE USE OF THE INFORMATION BY OTHERS. Lucent Technologies reserves the right to change or delete any portions of the document or to add information in the future.

1.2.2 TERMINOLOGY

1.2.2.1 Communication Module Name Change

Global Messaging Server (GMS) is the official name of the communication module, model 3 (CM3) hardware. Where the term GMS may be expected in software-influenced items such as input and output messages, master control center screens, and recent change/verify screens, the term CM3 may be found until such time as the term is changed in the software code.

1.2.2.2 Bellcore/Telcordia Name Change

As of March 18, 1999, Bellcore officially changed its name to Telcordia Technologies. Not all pages of this document are being reissued to reflect this change; instead, the pages will be reissued over time, as technical and other changes are required. Customers on standing order for this document may see that, on previous-issue pages, the Bellcore name is still exclusively used.

Customers receiving new orders for this document will see the Telcordia Technologies name used as appropriate throughout the document, and the Bellcore name used only to identify items that were produced under the Bellcore name. Exceptions may exist in software-influenced elements such as input/output messages, master control center screens, and recent change/verify screens. These elements will not be changed in this document until such time as they are changed in the software code. Document updates will not be made specifically to remove historical references to Bellcore.

1.2.2.3 *5ESS®*-2000 Switch Name Change

This *5ESS®* switch document may contain references to the *5ESS®* switch, the 5ESS-2000 switch, and the *5ESS® AnyMedia®* Switch. The official name of the product has been changed back to the *5ESS®* switch. The documentation will not be totally reissued to change these references. Instead, the changes will be made over

time, as technical changes to the document are required. In the interim, assume that any reference to the 5ESS-2000 switch or the *5ESS® AnyMedia®* Switch is also applicable to the *5ESS®* switch. It should be noted that this name change may not have been carried forward into software-influenced items such as input and output messages, master control center screens, and recent change/verify screens.

1.2.2.4 Document Specific Terminology

National ISDN is an evolving platform in which new features will continue to be introduced for new revenue opportunities, improved operational efficiencies, and for support of specific applications. NI 1, NI 2, and NI 3 represent specific features as documented in Bellcore SRs 1937, 2120, and 2457. The industry is migrating to an additional terminology to more specifically denote the availability of National ISDN features: NI 95, NI 96, etc. A feature is included in a specific version (such as, NI 96) if it is available by the switch vendors by the first quarter of the year.

As a result of the World Telecommunications Standardization Conference held March 1-12, 1993, the International Telegraph and Telephone Consultative Committee (CCITT), no longer exists as an organization under the International Telecommunication Union (ITU). According to the ITU, the CCITT is now referred to as the International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS).

For new and revised Recommendations issued by the ITU-TS, the term "CCITT Recommendation X.xxx" will be replaced by the "ITU-T Recommendation X.xxx" designation. For a transition period from 1993 to 1997, if the Recommendation had a previous CCITT designation, the new name will include "(formerly CCITT Recommendation X.xxx)". Names of existing CCITT Recommendations will not change unless revised.

1.2.3 HANDLE DATE AND TIME TRANSITION TO YEAR 2000

For any time-stamp data that occurs in *5ESS®* switch operations after the time is transitioned to the year 2000 and beyond, the year 00 shall be interpreted as 2000 after 12/31/1999. The data (billing, log files, and so forth) shall continue to work even right after transition to the year 2000 from midnight 12/31 1999.

1.3 ORGANIZATION

The IM manual includes the:

Introduction - explains the purpose of the document and the organization of the material presented.

User Guidelines - contains information about the conventions used in documenting IMs. The structure and layout of IMs, as well as their naming and usage conventions, are discussed. This section also explains the on-line help feature, the input message edit and history function, the format notation used in this document, and the organization and content of the message descriptions contained in this document.

Acronym List - defines acronyms and abbreviations used in the IM manual.

Indexes - contains helpful indexes. These indexes may be used as guides for locating and selecting specific message descriptions in the IM manual.

- The Functional Index summarizes the purpose of each IM, categorizing the IM according to unit or function.
- The Topical Index shows the relation of IMs divided into topics (categories).

Appendixes - contains information that is referred to by two or more IM descriptions, such as listings of audits and traffic (TRFC) sections.

The rest of the IM manual contains message descriptions presented in alphabetical order by message ID.

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For a complete list of secured feature identifiers (SFIDs), refer to the *Translation Guide (TG-5)* manual, 235-080-100.

1.8 REFERENCES

This is a standard *5ESS®* switch document that is also applicable to the Compact Digital Exchange (CDX) and Very Compact Digital Exchange (VCDX) switching systems. Information applicable to only CDX or VCDX may be found in the following documents:

235-120-010 Compact Digital Exchange (CDX) Reference Guide

235-120-020 Compact Digital Exchange (CDX) User's Guide

235-120-120 Very Compact Digital Exchange (VCDX) User's Guide

Additional references are given as needed, within individual message descriptions. An "x" or "x"s in the last three positions of a release specific document number indicate the digits that change from release to release. Refer to 235-001-001, Documentation Description and Ordering Guide for the document number associated with each software release.

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2. USER GUIDELINES

2.1 INTRODUCTION

This section explains the rules to which *5ESS®* switch input messages (IMs) must conform, and the conventions that are used in this manual to show how messages are constructed.

The term messages refers to the commands that are used to control and monitor the *5ESS®* switch system (IMs).

Each *5ESS®* switch system is set to accept only one message language, human-machine language (MML). MML is the human interface language developed by the International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT).

2.2 MESSAGE DESCRIPTIONS

The message descriptions form the bulk of the IM manual. Message descriptions are documented on manual pages.

The term "manual page" refers to the description of an IM without regard to how many physical sheets of paper or screens are used to complete the description.

Each IM manual page consists of several elements that form the message description.

2.3 MANUAL PAGE - GENERAL PARTS

This section gives a general description of each part of a manual page.

2.3.1 Message Name

The message name is made up of the command code and parameter names from the message format omitting any variables and optional values and has a maximum length of 20 characters. This is used like a dictionary heading to give a general idea of placement in the manual.

2.3.2 The Key Block

The key block is the block of text in the upper right corner of the manual page. The key block includes:

- ID
- RELEASE
- COMMAND GROUP
- APPLICATION

2.3.2.1 ID

The ID is the unique identifier of the IM. Every message ID is composed of two parts separated by a colon. The part to the left of the colon is the command code of the message. One or more parameter names from the format usually make up the remaining portion of the ID. If there is more than one parameter name to the right of the colon, these parameter names are separated by a hyphen. For example: EXC:SODD-RED-OP.

2.3.2.2 RELEASE

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This was formerly labeled GENERIC. The *5ESS®* switch software release or range of releases to which the message description applies. Here are some examples of possible software release entries:

5E15 only	The message description applies only to release 15.
5E15 and later	The message description applies to release 15 and to all later releases.
5E15 - 5E16(1)	The message description applies to release 15 through release 16(1).

If changes from one release to another have affected a format, two or more separate manual pages are provided. Such a split is indicated by the last character of the message ID. If separate manual pages exist for the same message, the ID for the first manual page is followed by "-A", the second by "-B", and so forth.

Please note that this "dash-letter" suffix is dynamic depending on thes number of software releases being supported and the number of versions of a message.

2.3.2.3 COMMAND GROUP

The command group identifies the message as a member of a group of input messages having a certain authority/priority level on the switch. This code can sometimes be changed by the service provider. What is documented on the manual page is the command group originally assigned by AT&T in the initial software release.

2.3.2.4 APPLICATION

This specifies the application to which the message pertains.

Application Code	Explanation
5	USA *5ESS®* switch. May also apply to CDX, VCDX, or WNC. Refer to the help facility to verify applicability for these systems.
3B	administrative module (AM) software.
CNI	Common Network Interface.
CDX	Compact Digital Exchange only.
VCDX	Very Compact Digital Exchange. May also apply to the AEWNC. Refer to the help facility to verify applicability for this system.
AEWNC	*Air Extension℠* Wireless Network Controller only.

This implies that a listing such as "5,3B" means that this message applies to both USA *5ESS®* switch and the administrative module software.

2.3.3 WARNING

Input messages that may adversely affect service are flagged with a warning message at the left side of the key block. An explanation of the warning is given in the PURPOSE section.

2.3.4 PURPOSE

This section of the manual page contains a brief explanation of the purpose of the message and includes the explanation of any associated warnings.

2.3.5 FORMAT

Message formats are a kind of notation that is used in this document to show the possible ways in which IMs

can be constructed. Formats are described in greater detail in the **MANUAL PAGE-SECTION DETAILS** section of the User Guidelines.

2.3.6 EXPLANATION OF MESSAGE

This section of the manual page explains the meaning of the various parameter names, parameter values, and variables in the format.

2.3.7 SYSTEM RESPONSE

The system responds to IMs with an acknowledgment that appears one space after the terminating character of the IM on the TTY device. This will normally happen about five seconds after the message is entered.

These acknowledgments give information about the status of the message (for example, accepted, rejected, in progress, and so forth). Standard system responses are listed in the APP:RESPONSES appendix in the Appendixes section of the Input Messages manual. Standard craftshell responses are listed in Table 2-1 at the end of the User Guidelines. If a message has a response that is not standard, the response is explained in this section of the manual page.

2.3.8 REFERENCES

This section lists all related input and output messages, documentation references, Master Control Center (MCC) display pages and recent change views.

2.4 MANUAL PAGE - SECTION DETAILS

2.4.1 FORMAT Section

The format is the most important part of every manual page. The FORMAT shows the syntax of the message (that is, the way the message must be constructed so that the system will understand it correctly).

2.4.1.1 Example

Here is an example of how the FORMAT section of a typical manual page might look:

```
[1]     OP:PMCR,TYPE=STAT[,HOURLY|,DAILY=a|,NOHOURLY|,NODAILY];

[2]     OP:PMCR,TYPE=RET,INTVL=b,FORM=c;

[3]     OP:PMCR,TYPE=DEM,FORM=c;
```

Many IMs can be input in more than one format. When appropriate, distinct formats are shown separately and given a number (in square brackets). In the example, there are three formats. (The OP:PMCR message requests various plant measurements detailing system performance statistics.)

Format 1 is a status report request. It reports hourly and/or daily data.

Format 2 is a retained report request. It reports hourly and/or daily data that was retained from a previous status report.

Format 3 is a demand report request. It reports up-to-the-hour data collected for the next daily report.

2.4.1.2 Format Notation

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The message formats shown in this document may include one or more types of format notation that are not part of the message itself. The purpose of this notation is to show the choices the user has in entering the message.

[ ]	Brackets enclose optional entries. Optional entries may be included in the message or may be omitted.
{ }	Braces enclose two or more entries where one entry, but only one, must be included in the message.
|	OR bars separate a selection of entries enclosed by braces or brackets. One of the entries separated by OR bars, but only one, may be selected.
. . .	Vertical ellipsis marks (three vertical dots) following a format means that there may be more than one line when an OM is printed. These additional lines will conform to the same format, but may contain different data.
...	Horizontal ellipsis marks used within a format depict variable repetition.
. . .	Three ellipsis marks with embedded spaces, either at the beginning of a line or at the end of a line, indicate that a format string is divided into multiple lines in the manual page. This is for documentation purposes only.

Remember that brackets, braces, OR bars, and ellipsis marks are never used when you are actually entering a message. They are only used in message formats to show you how a message must be constructed.

2.4.1.3 Notation Examples

The following examples illustrate the use of brackets, braces, OR bars, and ellipsis.

`ENTRY1 ENTRY2`	Both ENTRY1 and ENTRY2 must be used.
`[ENTRY1][ENTRY2]`	Both entries are optional. Both, either, or neither may be used.
`{ENTRY1|ENTRY2}`	Either ENTRY1 or ENTRY2 must be used. Using both is not permitted.
`[ENTRY1|ENTRY2]`	Either ENTRY1 or ENTRY2, but not both, may be used. Both entries may be omitted.
`[ENTRY1{ENTRY2|ENTRY3}]`	All three entries may be omitted; however, if any of these entries is used, your options are: ENTRY1 and ENTRY2 or ENTRY1 and ENTRY3. It is not permissible to use both ENTRY2 and ENTRY3.
`{ENTRY1|ENTRY2|ENTRY3}`	One of these three entries must be used, but it is not permissible to use more than one.
`[ENTRY1]...[ENTRY1]`	Signifies repetition of ENTRY1.
`a b c`	Signifies that there may be more than one line when an OM is printed.

2.4.1.4 Special Conventions

A special format convention governs cases where a colon is followed by a series of consecutive optional entries separated by commas. In these cases, the colon replaces the comma for the first optional entry that is actually used. For example, DGN:MTC is documented with the following format:

```
DGN:MTC=a[:[RPT=b][,RAW][,UCL][,REX|,DEX]][,[PH=c[&&d]][,TLP]
        [,CONT][,MT=e]];
```

The following examples show the punctuation of this message when some (but not all) of the optional entries are chosen.

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```
DGN:MTC=a:RPT=b,RAW,UCL,REX,PH=c,TLP;
DGN:MTC=a:RAW,UCL,REX,PH=c,TLP;
DGN:MTC=a:UCL,REX,TLP;
DGN:MTC=a;
```

2.4.2 Message Syntax

The structure of messages consists of a series of fields that must be entered in a prescribed order. Fields and the entries that can be made in them are summarized in Table 2-2 of the User Guidelines.

This is the general syntax of a message:
`command code:parameter block(s):...:[data parameters block(s)];`

IMs consist of two or more fields. The first field of an IM always contains a command code that identifies the action that the message is being used to accomplish. This command code is always followed by a colon.

The colon is followed by one or more parameter blocks. A parameter block consists of parameter names with associated parameter values. Parameter blocks are separated by colons. Parameter blocks identify units, functions, or data that the command code is acting upon.

A parameter name may appear by itself, or it may be followed by a single parameter value, a list of values, or a range of values. Parameter names are alphanumeric and must begin with a letter.

A parameter value is separated from a parameter name by an equal sign (=). Parameter values may be numeric or alphanumeric. When parameter values are shown in the FORMAT section of the manual page as lowercase letters, they represent variables that are replaced by specific data when the message is entered. If the value of the variable contains lowercase letters, the value must be enclosed in double quotes to retain the integrity of the lowercase letters.

Values in a list are separated by hyphens. Any two values that indicate the limits of a range are separated by two ampersands (&&), instead of a hyphen.

2.4.2.1 Syntax Examples

The following examples illustrate command codes and parameter blocks in various IMs.

`CLR:UMEM;`	Two fields: the command code (CLR), and one parameter block (UMEM).
`ABT:TASK:TLWS=a;`	Three fields: the command code (ABT), and two parameter blocks (TASK and TLWS=a)
`UPD:GEN:BACKOUT:UCL;`	Four fields: the command code (UPD), and three parameter blocks (GEN, BACKOUT, and UCL).
`OP:STATUS,PROCESS,ALL;`	Three fields: the command code (OP) and two parameter blocks (STATUS and PROCESS,ALL). NOTE: A comma is used here instead of the colon separating STATUS and PROCESS,ALL.

2.4.2.2 Parameter Name and Parameter Value Examples

The following examples show instances of parameter names and parameter values. `OP:STATUS,DN=a;`

The purpose of this message is to output the current status history for a specified line. The IM has the command code of OP (for "output"), and the parameter names STATUS and DN in the next field. The parameter name DN has the parameter value 'a'. This value stands for the directory number of the line for

which the status history is to be printed. If you were to type in this message, you would substitute an actual directory number for the value 'a'. `SET:CLK,DATE=a-b-c,TIME=d-e-f;`

This message sets the system clock to the date and time that you specify. There are three names in the second field (CLK, DATE, and TIME). If you were to type in the command, you would enter the month for '`a`', the day of the month for '`b`', and the year for '`c`'. Similarly, you would enter the hour, minute, and second for values '`d`', '`e`', and '`f`'. `CLR:ISOL,SM=a[&&b];`

This message takes one or more switching modules (SMs) out of isolation. The parameter name SM has one or two values ('`a`' and '`b`'). You must enter at least one. If you choose to enter only '`a`', then you will enter only one SM number. If you choose the option, then you will enter a range of SM numbers. In this case, '`a`' will stand for the lower limit of the range, and '`b`' stands for the upper limit of the range. (Note the two ampersands that precede the '`b`'. These ampersands indicate that a range is being specified.)

2.4.2.3 Comparison of Format Syntax and Actual Input Messages

The following examples show message format syntax as they might appear in manual pages and some examples of actual IMs that correspond to these formats. The FORMAT section of a manual page uses uppercase to indicate command codes and parameter names. Lowercase letters are used to indicate variables. In actual use at the user input terminal, all command codes and parameter names may be typed in lowercase.

Syntax:
Example:
or
	`OP:STATUS,DN=a;`
	`OP:STATUS,DN=19;`
	`op:status,dn=19`

Syntax:
Example:
or
	`SET:CLK,DATE=a-b-c,TIME=d-e-f;`
	`SET:CLK,DATE=12-22-94,TIME=2-30-15;`
	`set:clk,date=12-22-94,time=2-30-15;`

Syntax:
Examples:
or
 	
or
	`CLR:ISOL,SM=a[&&b];`
	`CLR:ISOL,SM=5&&12;`
	`clr:isol,sm=5&&12;`
	`CLR:ISOL,SM=9;`
	`clr:isol,SM=9;`

Syntax:
Examples:
or
 	
or
 	
or
	`OP:STATUS,PROCESS,{ALLTERMS|ALLKERNS|ALL}[,OPL=a];`
	`OP:STATUS,PROCESS,ALLTERMS,OPL=10;`
	`op:status,process,allterms,opl=10;`
	`OP:STATUS,PROCESS,ALL,OPL=10;`
	`op:status,process,all,opl=10;`
	`OP:STATUS,PROCESS,ALL;`
	`op:status,process,all;`

Syntax:
Examples:
or
 	
or
 	
or
 	
or
	`IN:REMOTE,START[,BSDIR="a"][,BLOCKS=b];`
	`IN:REMOTE,START,BSDIR="/etc/bwm",BLOCKS=100;`
	`in:remote,start,bsdir="/etc/bwm",blocks=100;`
	`IN:REMOTE,START,BSDIR="/etc/bwm";`
	`in:remote,start,bsdir="/etc/bwm";`
	`IN:REMOTE,START,BLOCKS=100;`
	`in:remote,start,blocks=100;`
	`IN:REMOTE,START;`
	`in:remote,start;`

2.4.2.4 Entering an IM

The craftshell accepts simplified IM syntax. Commas rather than colons may be used to separate the parameter blocks after the command code and first colon. All options may be specified as a single, comma-separated parameter block.

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Parameter names may be typed in any order within a parameter block, but the parameter blocks must appear in the order specified in the manual page.

2.4.2.5 Syntax Combination Example

This example may be entered in a variety of format syntax combinations:
`DGN:IOP=1:RPT=1,RAW,UCL:DATA,CONT,TLP;`

Valid examples:

`DGN:IOP=1,RPT=1,RAW,UCL:DATA,CONT,TLP;`	(Colon between IOP and RPT has been changed to a comma.)
`DGN:IOP=1,RAW,UCL,RPT=1:DATA,CONT,TLP;`	(Order of keywords in the third block is rearranged.)
`DGN:IOP=1,RAW,UCL,RPT=1:DATA,TLP,CONT;`	(Order of keywords in the fourth block is rearranged.)
`DGN:IOP=1,RAW,UCL,RPT=1,TLP,CONT;`	(The ":" has been changed to a comma and the "`DATA`," has been deleted.)

Invalid examples:

`DGN,IOP=1,RAW,UCL,RPT=1,CONT,TLP;`	(First colon has been changed to a comma.)
`DGN:IOP=1,CONT,TLP,RAW,UCL,RPT=1;`	(Order of blocks 3 and 4 reversed.)
`DGN:IOP=1,RAW,UCL,CONT,TLP,RPT=1;`	(Parameters of blocks 3 and 4 are intermixed.)

Because of the way that IMs are translated internally by the system, the message that is echoed to an output device may look different from the message originally entered at the console.

For example, the actual message: `DGN:IOP=1:RPT=1,RAW,UCL:DATA,CONT,TLP;` may be echoed to an output device from any of the following IM formats:

```
DGN:IOP=1,RPT=1,RAW,UCL,CONT,TLP;

DGN:IOP=1,RPT=1,UCL,RAW,CONT,TLP;

DGN:IOP=1,UCL,RAW,RPT=1,CONT,TLP;

DGN:IOP=1,UCL,RAW,RPT=1,TLP,CONT;
```

2.4.2.6 A Summary of Syntax Rules

A summary of rules for constructing IMs follows:

(1) Block separators (:) may be typed as commas (,) except for the colon immediately following the command code.

(2) Parameter names may be unordered within a parameter block, but the blocks themselves must remain ordered.

(3) All numbers in IMs are assumed to be decimal unless you indicate otherwise by entering the appropriate code before the number. Valid codes are:

- B' (binary)
- O' (octal)

- H' or X' (hexadecimal)
- D' (decimal)

(4) An entered message may consist of up to 255 spaces and characters that may extend over several lines of input.

(5) The last character in a format line must be either an exclamation point, a semicolon, or a question mark.

- The semicolon (provided automatically by the return key) causes the message to be executed immediately as entered.
- The exclamation point is a continuation character.
- The question mark requests craftshell help.

(6) Within a message, the equal sign (=) is used as a separator between the parameter name and the parameter value. Spaces are not allowed between parameters.

(7) Double quotation marks (" ") around a parameter value are required when specifying a pathname to a file or file name or to maintain the integrity of lowercase letters.

(8) Typing a non-printable character in a string results in ?(BEL) (a question mark and a bell sound). The non-printable character remains in the string.

2.5 ROUTING INPUT MESSAGE RESPONSES TO THE RECEIVE-ONLY PRINTER (ROP)

An output message response to an IM request is always printed on the originating TTY. The output message may also print on the receive-only printer (ROP) and/or other I/O devices, depending on the message class associated with the output message. There may be message classes that have an "RSP" or "_RSP" suffix (shown in the key block section of an output message description). These types of messages print at the originating TTY terminal only, in "response" to the input request.

Output messages with an "RSP" or "_RSP" message class can be forced to print at the ROP by appending ",PRTROP" to the end of the IM request. The ",PRTROP" option is valid on any IM and does not adversely affect the routing of the output message, except to route it to the ROP.

2.6 HELP FEATURE

The *5ESS®* switch has an IM HELP feature. This feature:

- Improves the understanding of error messages in cases where syntax or semantic errors are found in entered messages.
- Helps with IM syntax, including parameter value type and range.
- Prompts for entering IMs.

NOTE: Do not use HELP while the emergency action interface (EAI) page is displayed. Instead, press the NORM/DISP key to display a non-EAI page, then use HELP. If HELP is used while the EAI page is displayed, only the bottom few lines of the HELP message are displayed. The EAI page may also be

left partially blank, but can be restored manually by pressing the EA/DISP key.

2.6.1 The Different Kinds of Help

There are two different ways to get help. One way is to type a portion of an IM, followed by a question mark. Another way is to type a question mark after an error message. Either of these will get you help.

There are two different types of help. The first type of help provides information about the syntax of IMs. The second type of help assists you in composing IMs by prompting choices between the possible entries.

2.6.2 Getting Help If You Know One or More Parameter Name

If you know one or more of the parameter names in a message, you can find out how many messages share that parameter, and what the syntax of these messages is.

To get information about the parameter names in an IM, enter part of the message (one or more parameter names). Type a question mark after the last parameter name.

EXAMPLE 1

If you enter:

```
op:pmcr?
```

The system responds:

```
 The input matches 3 messages.
 Further errors may be revealed after a single
 message has been selected.

 1) OP:PMCR:TYPE=a,FORM=b;

 2) OP:PMCR:TYPE=a,INTVL=b,FORM=c;

 3) OP:PMCR:TYPE=a[,b][,FORM=c];
       b is HOURLY, DAILY[=d], NOHOURLY or NODAILY;
       choose one or omit

 append text, hit ? for more info.,
 hit <CR> to execute, or hit <DEL> to reject

 op:pmcr_
```

These are the only messages that begin with "OP:PMCR". Up to 128 messages can be displayed. The underline character in the last line of the example represents the position of your cursor after the system has displayed its response on your terminal. The system will wait about forty seconds for your response. If you do not respond within that time, then you are exited from the help facility, and you get the system prompt.

You may do one of the following:

- Enter a carriage return to execute, "`OP:PMCR`" which results in a missing parameter name errors message.
- Type the rest of a message [for example, "`:type=dem,form=1`" (for format 1)] and a carriage return to execute the message.
- Type a question mark to go to the second help level. You are then taken through the message a step at a time, and you are prompted for each entry.
- Press the "Delete" key. You leave the help facility and the message is not sent.

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NOTE: If you type a question mark immediately after a parameter name (as in the example), you get information only about the parameter names in the message. You do not get information about parameter values.

You may also get help for parameter values in a message. To get help for parameter values in a message, type an equal sign (=) followed by a question mark after the parameter name.

EXAMPLE 2

If you enter:
```
op:conv,len=?
```
The system responds:
```
 LEN=a-b-c-d-e-f
   a is an SM number between 1 and 192
   b is a number between 0 and 7
   c is a number between 0 and 9
   d is 0 or 1
   e is a number between 0 and 7
   f is a number between 0 and 3

 append text, hit ? for more info.,
 hit (CR) to execute, or hit (DEL) to reject
 OP:CONV,LEN=_
```

The system lists the possible entries for the values ('a' through 'f') of parameter LEN of this message. The underline character represents the position of the cursor on the screen.

2.6.3 Getting Help for an Error Message

If you make a mistake when you enter an IM, the system responds with an error message. You can invoke the help facility after receiving such a message and get more information about how the message should be composed.

Here is an example of getting help after the system sends an error message:

EXAMPLE 3

If you enter:
```
op:hdwchk,clink;
```
The system responds:
```
 ?D - unexpected keyword CLINK
 enter a new command OR ? for more information
```

If you now type a question mark, you will obtain the following system response:
```
 unexpected keyword CLINK
 The input matches 3 messages.

  (Further errors maybe revealed after
   a single message has been selected.)

  1)  OP:HDWCHK,a;
        a is MMP=b-c, CMP=b-d, FPC=b, PPC=b,
        ONTC=b, MSCU=b, or CLNK=e-f-g-h;
        must choose one

  2)  OP:HDWCHK,CM;

  3)  OP:HDWCHK,NCREF,a;
```

```
                    a is PRIM=b, SEC=b, XC=b; REF1=b, REF2=b,
                    REF3=b, REF4=b, REF5=b, REF6=b, REF7=b,
                    REF8=b; must choose one

                enter a new command OR ? for more information
```

Typing the question mark after an error message has the same effect as typing a message fragment followed by a question mark. The same kind of help is provided. In this case, three messages begin with OP:HDWCHK. The unexpected keyword error is ignored.

2.6.4 The Second Level of Help: Prompting

Once you have gotten help as described in the previous section, you can get an additional kind of help: prompting. If you type a question mark again after receiving the help described in Examples 1, 2, and 3, you are prompted for each entry in the message until it is complete.

If you type a question mark in response to Example 2, you are prompted for each parameter value (a through f) for parameter LEN. In Examples 1 and 3, you are asked to choose one message from the list that is displayed. Then you are prompted to complete the chosen message.

2.6.5 Ending the Help Session

You may exit the help facility at any time by pressing the "Delete" key. If you are being prompted, then you must press the "Delete" key once to end the prompting, and press it a second time to end the help session.

2.7 INPUT MESSAGE EDIT AND HISTORY

The input message edit and history function is designed to assist the user in retrieving and editing input messages already entered on a given terminal. It provides the following capabilities to the user:

- A record of input messages entered during a session.
- Retrieval by history buffer line number, by string, or by last input message entered.
- Edit of retrieved input messages.

2.7.1 Availability

The input message edit and history function is provided on the following terminal types:

- Maintenance Control Center (MCC)
- Supplementary Trunk and Line Workstation (STLWS)
- Switching Control Center (SCC)
- Recent Change and Verify (RC/V)

2.7.2 Related Input/Output Messages

The input message edit and history function includes four input messages and an output message. The input messages apply only to the terminal upon which they are entered. See the appropriate manual pages for more

information.

IM Message ID	Purpose
ALW:HIST	allow history recording
INH:HIST	inhibit history recording
CLR:HIST	clear history buffer
OP:HIST	displays entries from the history buffer

OM Message ID	Purpose
OP:HIST	response to the OP:HIST input message

2.7.3 History

Each terminal keeps a separate history buffer containing only the input messages entered at that terminal. Input messages are saved only when history recording is allowed. By default, history recording is allowed when a terminal comes into service.

If history recording is allowed and the input message is not a help input message, then the submitted input message is saved in the history buffer.

Function associated input messages that access help information and retrieve or edit input messages are not stored, regardless of the status of history recording.

2.7.3.1 Service Affecting or Sensitive Input Messages

It is recommended that the user inhibit history recording before entering any input messages that are sensitive or may cause interruptions or degradations of service. This prevents the service affecting input message from being accidentally retrieved and re-executed. After the sensitive or service affecting input message is executed, history recording can be allowed.

2.7.3.2 History Buffer Line Numbers

The history buffer can have a maximum of 200 entries at any given time. The buffer line numbers, however, begin at 1 and have a maximum range of 999.

Numbering of the buffer lines continues to 1000 even though only the last 200 input messages are in the buffer at any given time. The input message assigned to buffer line number 1000 triggers the following sequence:

- It is reassigned to line number 200.
- The last 199 entries already in the buffer are renumbered 1 through 199.
- The incrementation of buffer line numbers resumes with 201.

2.7.3.3 Clearing the History Buffer

It is recommended that the user clear out the history buffer at the end of each terminal session. This helps keep users from accessing input messages and corrupting the switch database by accident or intent. The buffer is always empty when a terminal comes into service.

2.7.4 Special Characters

The characters '#' and '^' are used for line editing control. The '#' character indicates that a retrieval process is to commence. The '^' indicates that a string follows. The string may be null.

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2.7.5 Input Message Retrieval Procedure

A input message can be retrieved by one of the following methods:

Code	Explanation
#*n*>	Retrieve by history buffer line number. This retrieves line number 'n' from the history buffer.
##	Retrieve last input message. This is a shorthand method to retrieve the most recently stored input message from the history buffer.
#^*a*	Retrieve by string. This retrieves the most recently stored input message that contains the string 'a' from the history buffer.

2.7.6 Command Modes

The modes associated with the input message edit and history function are:

- command entry mode
- edit mode

2.7.6.1 Command Entry mode

Command entry mode is the default mode. Input messages entered in command entry mode are stored in the history buffer, if history recording is allowed. The prompt for command entry mode is '<'.

Enter '?' to request help information.

2.7.6.2 Edit Mode

From command entry mode, edit mode is accessed by entering one of the special character sequences that indicate history buffer retrieval is being requested.

If the indicated buffer line number or string is found in the history buffer, the retrieved input message becomes the "pending" input message and the craftshell switches to edit mode. If an available input message is not identified, a "Command Unavailable" error message is output and the craftshell remains in command entry mode.

The user stays in edit mode until he/she either submits the pending input message for execution or cancels the edit session. After each edit, the latest version of the pending input message is displayed, along with the edit mode prompt (<<). At the edit mode prompt, the user can perform any of the following actions:

- enter '?' to request input message edit help information.
- enter (cr) (carriage return) to execute the pending input message.
- enter (del) (delete) to return to command entry mode, without executing the pending input message.
- retrieve another saved input message by any of the available methods.
- continue editing the pending input message.
- enter an input message.

To stay in edit mode, a pending input message must always be available. If, after an edit cycle is complete, a

pending input message is not available, the craftshell returns to command entry mode.

If a carriage return or semi-colon (;) is entered at the edit prompt (<<), the pending input message is submitted to the craftshell for execution and:

- the edit session is terminated
- the craftshell returns to command entry mode
- the command entry mode prompt (<) is displayed.

If the input message entered is incorrect, an appropriate error message is displayed by the craftshell.

2.7.7 Help

If a lone question mark (?) is entered at the edit prompt (<<), a brief input message edit help message is displayed, followed by the latest version of the pending input message and the edit mode prompt (<<).

If the user enters an edited input message with invalid syntax, the input message edit help information is displayed after the "Command Not Recognized" error message.

2.7.8 Line Editing

Input message editing provides the capability to retrieve saved input messages and re-execute them. Retrieved input messages may be edited using substitutions, appends, or a combination of both before re-execution.

2.7.8.1 Editing Definitions

Append = A string is added to the end of the pending message.

Substitute = A substitution is performed only at the right-most occurrence of the specified *oldstring* within the pending input message. This permits the user to easily update just the last characters(s) of an input string.

Nuances = A null *oldstring* causes the replacement string to be appended to the end of the pending input message. A null *newstring* causes the *oldstring* to be deleted from the pending input message.

2.7.8.2 Retrieval/Editing Options

Code	Explanation
^*newstring*	The `newstring` text is appended to the end of the pending input message or the last input message entered.
^*oldstring*^*newstring*	Substitute the new string for the old string to the pending input message or the last input message entered.
#*n*^*newstring*	Retrieve line number from the history buffer (*#n*) and append the *newstring* to it.
##^*newstring*	Retrieve the most recently stored input message from the history buffer (*##*) and append the *newstring* to it.
#^*searchstring*^*newstring*	Retrieve the most recently stored input message containing the *searchstring* from the history buffer (*#^searchstring*) and append the *newstring* to it.
#n^*oldstring*^*newstring*	Retrieve line number from the history buffer (*#n*) and substitutes the last occurrence of the *oldstring* with the *newstring*.

##^*oldstring*^n*ewstring*	Retrieve the most recently stored input message from the history buffer (*##*) and substitute the last occurrence of the *oldstring* with the *newstring*.
#^*searchstring*^*oldstring*^*newstring*	Retrieve the most recently stored input message containing the *searchstring* from the history buffer (*#^searchstring*) and substitute the last occurrence of the *oldstring* with *newstring*.

2.7.9 Error Cases

The input message edit and history function provides specific error messages to assist the user when problems are encountered when retrieving or editing an input message and when invalid conditions for an OP:HIST input message exist.

For error conditions that occur during the retrieve or edit procedures, the following results are possible:

Result	Explanation
Remain in command entry mode.	If an attempt to retrieve a input message (and go into edit mode) from command entry mode fails, there is no pending input message available. An error message is output, followed by the command entry mode prompt (<).
Remain in edit mode.	If there is a pending input message available, subsequent error conditions generates an error message followed by the pending input message and the edit mode prompt (<<). The pending input message is the result of the last successful retrieve or edit.
Go to edit mode.	If a combined retrieve and edit input message is entered at the command entry mode prompt (<), it may succeed for the retrieve and fail for the edit. An error message is output (for the failed edit), followed by the pending input message (the successful retrieve), and the edit mode prompt (<<).
Go to command entry mode.	If a successful edit results in a null pending input message, the command entry mode prompt (<) is output. No error message is output, since the edit was successful.

2.8 MCC DISPLAY PAGES

Master Control Center (MCC) display pages are used to perform maintenance and administrative functions for the *5ESS®* switch.

See document 235-105-110 System Maintenance Requirements and Tools for a further explanation of MCC display pages.

2.9 *5ESS®* SWITCH DIRECTORY STRUCTURE AND PATHNAMES

A *5ESS®* switch file system is a set of directories, ordinary files, and special device files.

- A directory is a collection of names of files and other directories.
- An ordinary file (also called a `flat file') is a collection of ASCII text. It may consist of ASCII characters, divided into lines demarcated by the new-line character, or it may consist of binary code that will be copied into main memory when a program is executed.
- A special device file supports input/output activity on a physical device, such as a terminal, magnetic tape, or disk partition. A request to read or write a special device file results in activation of the associated device. However, there is not necessarily a one-to-one correspondence between physical devices in the system and special device files. A single device may have more than one special device file. For example, four different special device files are used to read the same magnetic tape with high or low density and with or without rewind. Most special device files are located in a directory named /dev.

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The set of directories and files that comprise a file system is organized into a hierarchical tree structure, illustrated in Figure 2-1 . In this example:

- the database, dev, etc, lib, tmp, and cft directories all descend from the "root" directory
- the database directory contains a number of ordinary files, including the ecd and appecd databases
- the dev directory contains a number of special device files
- the cft directory contains various subdirectories, which in turn contain ordinary files and additional subdirectories

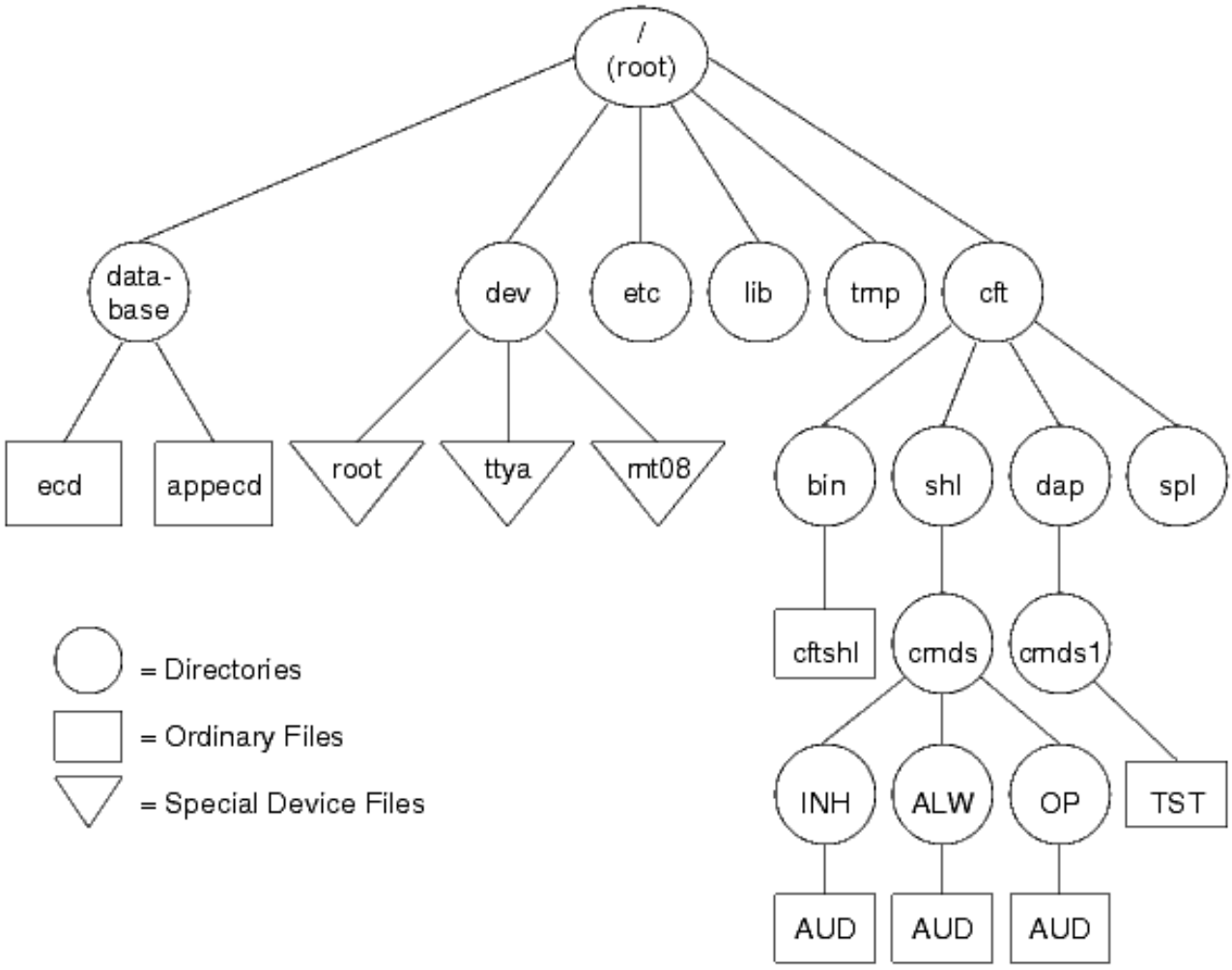


Figure 2-1 File System Structure

In the *5ESS®* switch system, the database, etc, and tmp directories are themselves the "root" directories of separate file systems that are mounted on the root file system during a system bootstrap. These four file systems (root, database, etc, and tmp) constitute the minimum set of file systems that are required for the *5ESS®* switch system to function. Backup copies of these file systems may also be provided, in case one of the primary file systems becomes damaged in a way that would prevent the system from operating

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successfully. If the system is bootstrapped on the backup file systems, the names of the directories where they are mounted remains the same. Other file systems may also be mounted automatically during a bootstrap, or they may be mounted manually by using ALW:FSYS-MOUNT.

Every file and directory in the system is identified by a unique pathname that indicates its location in the hierarchical file system structure. Many *5ESS®* switch IMs require the specification of a pathname. There are two types of pathnames that may be specified:

- Full pathnames begin with a slash (/). This is the name of the "root" directory of the root file system, and is followed by the name of the directory that is immediately beneath the "root" directory, followed by another slash, then the next directory name, and so forth, until the name of the specified file or directory is reached.

  For example: `FN="/user/a*/smo/test"`

- Relative pathnames begin with the name of a directory or file at an arbitrary point in the hierarchy, with no preceding slash. Their specification is relative to the immediately preceding directory. This is sometimes referred to as the base directory.

Because they contain lower-case alphabetic characters and slashes, pathnames must always be surrounded by quotation marks ("") when entered in an IM.

2.10 BINARY-DECIMAL-HEXADECIMAL CONVERSIONS

Both input and output messages use values in hexadecimal (base 16), decimal (base 10), octal (base 8), and binary (base 2). To convert binary numbers to hexadecimal, do the following:

- Separate the binary number into groups of four, starting with the rightmost number.
- Convert each group of four into its hexadecimal equivalent. (See Table 2-5 of the User Guidelines.)
- Example:

`001000011110`	Binary number
`0010 0001 1110`	Binary number in groups of four
`2 1 E`	Hexadecimal equivalent

To convert hexadecimal numbers to binary, perform the above procedure in reverse order.

To convert numbers from hexadecimal to decimal or vice-versa, refer to Table 2-4 of the User Guidelines. The left column contains hexadecimal numbers without the units digits. The units digits are shown in the first row.

Table 2-1 Craftshell Responses

Response	Meaning
`?D - incorrect value 'r' - arg #s of t`	The craftshell encountered an IM with an incorrect parameter value. r = The incorrect parameter value. s = The index number of the parameter value. t = The corresponding parameter name.

?D - keyword a typed out of order	The craftshell encountered an IM with the order of parameter names from two parameter blocks reversed. a = The first out-of-order parameter name that the craftshell encountered.
?D - missing keyword	The craftshell encountered an IM with a missing parameter name.
?D - unexpected keyword b	The craftshell encountered an IM with a parameter name that it does not recognize. b = The parameter name that the craftshell does not recognize.
?E BAD IM CATALOG	The craftshell detected a problem with the IM catalog. The input request may or may not succeed. The catalog may be missing or corrupted, or UPD:IMCAT may not have been entered after a new catalog was installed. Refer to REPT:CFTSHL output message and UPD:IMCAT IM for further information.
?E CFTSHL HANGUP RECEIVED	The craftshell terminated because it received a hang-up signal.
?E CFTSHL TERMINAL READING ERROR, ERRNO=c	The craftshell encountered an error while reading input from a terminal. c = System error code (refer to the System Error Codes Appendix, APP:SYSERR, in the Output Messages manual).
?E CFTSHL UNABLE TO FORK PROCESS d	The craftshell can not fork a new process to execute a command. d = Full pathname of the process that was not executed because of the fork failure.
?E COMMAND NOT RECOGNIZED	This Line Edit and History error can occur when a string (recall, append or substitute string) was not prepended with a caret (^), a recall command was entered that did not properly specify which stored command was being recalled or there were too many 'caret' characters in an edit command.
?E - input matches multiple messages	The typed input request matches more than one input message in the IM catalog and the craftshell can not determine which message to execute. To obtain further information enter the help facility by terminating the input request with a question mark ('?'). If the desired input request can not be satisfied after accessing the help facility, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Output Messages manual.
?E NO COMMANDS ARE STORED	A Line Edit and History recall command was entered when there are no commands in the history buffer to recall. The No Commands Are Stored error takes precedence over the other Line Edit error messages.
?E STRING NOT FOUND	This Line Edit and History error can occur for two reasons: A substitute command was entered where the 'OLD' string is not present in the pending command. A recall by string command was entered where the recall

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	string is not present in any of the commands stored in the command history buffer.
?E STRING TOO LONG	This Line Edit and History error occurs when an append or substitute command is entered that would result in a command longer than the legal limit of 256 characters. The append or substitute is rejected.
?E – syntax error; invalid e	The craftshell encountered an IM syntax error. e = The part of the IM that the craftshell identified as invalid.
?E – syntax error; unexpected 'f' after g	The craftshell encountered an IM syntax error. f = First invalid part of the IM. g = Last valid part of the IM.
?E – terminator must be 'q'	The craftshell encountered an improper IM terminator. q = Proper IM terminator character.
?E UNABLE TO INITIATE COMMAND h	The craftshell is unable to execute an input request because it encountered a zero-length file. h = Full pathname of the command that cannot be initiated.
?E UNABLE TO MATCH COMMAND i	An input command was entered that does not exist in the craftshell search directories. i = Full pathname of the non-existent command code
?E UNAVAILABLE COMMAND, CMD = j TO k	A Line Edit and History recall command was entered that identified a command that is out of the available range. To assist the user, the available range is printed as part of the error message. j = Lowest command number of available range k = Highest command number of available range
?E INVALID COMMAND	The craftshell is unable to execute an input request because it encountered a non-executable file or because it located a command directory but no executable file.
?V – invalid command code l	The craftshell encountered an IM with an invalid command code. l = The command code that the craftshell identified as invalid.
NG – FEATURE NOT AVAILABLE	The requested action failed because the feature required to process the request is not present in the switch or the given module.
NG – FILE OPEN FAILURE	An OP:HIST input command was entered but the output file could not be opened to print the information.
NG – NO COMMANDS ARE STORED	An OP:HIST input command was entered when there are no commands in the history buffer to output.
NG – RANGE UNAVAILABLE, CMD = m TO n	An OP:HIST input command was entered that specified a range (either explicitly or implicitly) that does not match any available stored command. To assist the user, the available range is

	printed as part of the error message. m = Lowest command number of available range n = Highest command number of available range
NG – SM o is isolated	The craftshell encountered an input request targeted for a switching module (SM) that is in the isolated state. o = Processor number of the isolated SM.
NG – SM p is not equipped	The craftshell encountered an input request targeted for an SM that is not equipped. p = Processor number of the unequipped SM.
NG – SYNTAX ERROR IN PREVIOUS MESSAGE	The EXC:PREV command was entered to execute a command that has a syntax error.
RL – UNABLE TO EXECUTE COMMAND	The craftshell is unable to communicate with another process to execute an input request. Retry request later.
RL – UNABLE TO SERVICE REQUEST	The craftshell is unable to execute an input request due to unavailable system resources such as system overload, excessive queue lengths, or a busy process. Retry request later.

Table 2-2 Summary of Parts of a Message Format

Term or Item	Definition
Block of Parameters	Any field but first field of message. Contains parameter names and parameter values.
Braces { }	Enclose two or more entries, separated by OR bars, of which the user must input one, but only one. Not input as part of the message.
Brackets [ ]	Enclose optional entries. Not input as part of the message.
Command Code	First field of message. Contains command code.
Data Field	Optional blocks of parameters in messages.
Equal Sign =	Separates parameter name and parameter value.
Exclamation Point !	Message terminating character that does one of the following: • In certain messages, causes the command to be executed at an appropriate break point. • Causes the system to expect more data field parameters to follow on the next line of input. • Causes the entered portion of the command to be executed as an immediate action (any ordinary message). Also causes a special colon (:) prompt to be issued. The terminal will not print output messages until the normal semicolon (;) terminating character is entered.
Field	Basic structural unit of message. Variable length. Separated by colons. There are at least two fields per message: command code and parameter block(s), in that order.
Keyword	The term keyword is often used in error messages to refer to a parameter name.
Message Length	Number of characters including spaces within the message (up to 255 characters). This may exceed one line.
Number Base	Default is decimal. Otherwise, numbers input must be preceded by B' (binary), O' (octal), or H' (hexadecimal).
OR bar |	Separates entries within braces or brackets. One entry, but only one, must be selected. If

	selections are enclosed by braces, one entry must be input; if enclosed by brackets, the entry is optional. Not input as part of the message.
Parameter	Parameter name and its associated parameter values, if any. Two or more parameters within a block of parameters are separated by commas.
Parameter Name	Mnemonic identifier of a unit, function, or condition. May have parameter values associated with it. Error messages often refer to parameter names as keywords. Input as shown.
Parameter Value	Separated from parameter name by equal sign (=). Often represented by a variable in message format. Can be input as a single entry, as multiple entries in the form a-b-c, or as a range in the form x&&y.
Pathname	Starts with a slash (/), with every file and directory name separated by a slash. When entered, must be immediately preceded and followed by quotation marks (").
Question Mark ?	Help request character. A question mark may follow a partial message or previously entered message that was erroneous. Typing ? after a help guidance message will cause it to enter prompting mode.
Quotation Marks ""	Enclose pathname of file, directory, or device. Also enclose any text strings entered. Input as shown.
Semicolon ;	Message terminating character that causes the command to be executed as an immediate action.
&&	Indicates a range in messages.
Variable	Shown as a lowercase letter in manual pages. Replace with user-supplied information.
Verb	Known as the command code. Shows what type of action is to be taken. May be an abbreviation of the command code.

Table 2-3 Summary of Pathnames

Pathname	**Meaning**
/	Full pathname of the "root" directory of the *root* file system.
/data base	Full pathname of the *data base* directory which is located directly under /.
/cft/shl/cmds	Full pathname of the *cmds* directory, which is located under the *shl* directory, which is located under the *cft* directory, which is located directly under /.
/cft/shl/cmds/INH/AUD	Full pathname of the *AUD* program which is executed by the INH:AUD message.
INH/AUD	Relative pathname of the same *AUD* program, relative to the */cft/shl/cmds* base directory.
OP/AUD	Relative pathname of the *AUD* program which is executed by the OP:AUD message, relative to the */cft/shl/cmds* base directory.
/dev/root	Full pathname of the special device file for the disk partition that contains the *root* file system (mounted as /).
/dev/broot	Full pathname of the special device file for the disk partition that contains the backup copy of the *root* file system (also mounted as /).
/dev/db	Full pathname of the special device file for the disk partition that contains the *db* file system (mounted as */data base*).
/dev/bdb	Full pathname of the special device file for the disk partition that contains the backup copy of the *db* file system (also mounted as */data base*).
/dev/mt00	Full pathname of the high density magnetic tape device that is attached to input/output processor (IOP) number 0 with an option 0 (rewinds a tape after reading from it or writing to it).
/dev/mt04	Full pathname of the high density magnetic tape device that is attached to IOP number 0 with an option 4 (does not rewind a tape after reading from it or writing to it).
/dev/mt08	Full pathname of the low density magnetic tape device that is attached to IOP number 0 with an option 8 (rewinds a tape after reading from it or writing to it).
/dev/mt0c	Full pathname of the low density magnetic tape device that is attached to IOP number 0 with an option c (does not rewind a tape after reading from it or writing to it).
/dev/mt10	Full pathname of the high density magnetic tape device that is attached to IOP number 1 with an option 0 (rewinds a tape after reading from it or writing to it).
/dev/mt14	Full pathname of the high density magnetic tape device that is attached to IOP number 1 with an option 4 (does not rewind a tape after reading from it or writing to it).
/dev/mt18	Full pathname of the low density magnetic tape device that is attached to IOP number 1 with an option 9 (rewinds a tape after reading from it or writing to it).
/dev/mt1c	Full pathname of the low density magnetic tape device that is attached to IOP number 1 with an option c (does not rewind a tape after reading from it or writing to it).

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Table 2-4 Binary-Octal-Decimal-Hexadecimal Conversions

Binary	Octal	Decimal	Hexadecimal
0000	00	00	0
0001	01	01	1
0010	02	02	2
0011	03	03	3
0100	04	04	4
0101	05	05	5
0110	06	06	6
0111	07	07	7
1000	10	08	8
1001	11	09	9
1010	12	10	A
1011	13	11	B
1100	14	12	C
1101	15	13	D
1110	16	14	E
1111	17	15	F

Table 2-5 Hexadecimal-Decimal Conversion

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	000	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015
1	016	017	018	019	020	021	022	023	024	025	026	027	028	029	030	031
2	032	033	034	035	036	037	038	039	040	041	042	043	044	045	046	047
3	048	049	050	051	052	053	054	055	056	057	058	059	060	061	062	063
4	064	065	066	067	068	069	070	071	072	073	074	075	076	077	078	079
5	080	081	082	083	084	085	086	087	088	089	090	091	092	093	094	095
6	096	097	098	099	100	101	102	103	104	105	106	107	108	109	110	111
7	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
8	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
9	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
A	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
B	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
C	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
D	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
E	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
F	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

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3. ACRONYMS

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ACRONYM

Software Release: 5E15 and later
Application: 5
Type: Input

1. ACRONYM LIST

2LAC
2-level automatic callback feature

AAL5CTL
asynchronous transfer mode adaptation layer 5 control

AATA
AUTOPLEX(rg automatic task administrator

AATLSOS
alternate access to language specific operator services

AATOS
alternate access to operator service

AATOS
alternate access to operator services

ABCD
ACD business and residential customer services call distributor

ABER
acceptable bit error rate

ABORT
abort

ABT
abort

AC
alternating current

AC
automatic callback

ACC
alarm conversion circuit

ACC
automatic congestion control

ACCDICT
access dictionary

ACCED

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access editor

ACCS
automated calling card service

ACCSDB
automated calling card service data block

ACD
automatic call distributor

ACDSP
ACD business and residential customer services system process

ACELP
algebraic code excited linear predictive

ACG
automatic code gapping

ACH
attempts per circuit per hour

ACK
acknowledgement

ACKDB
acknowledgement database

ACL
audit control library

ACM
address complete message

ACNR
automatic critical node restoration

ACP
action control point

ACQS
automated charge quotation service

ACQS
automatic charge quotation service

ACS
alert control status

ACSR
automatic customer station rearrangement

ACT

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active

ACT
alternate code treatment

ACT-MAJ
active major

ACTS
automated coin toll service

ACTS
automatic coin terminal service

ACTSR
active circuit status register

ADB
analog data block

ADC
address complete

ADDR
address

ADP
automatic diagnostic process

ADPIDB
access interface unit directly-connected peripheral data bus

ADPTR
address pointer register

ADR
alternate data random access memory

AENC
asynchronous event notification capability

AEOC
alternate embedded operations channel

AERM
alignment error rate monitor

AIBNS
automated inward billed number screening

AILS
automated inward line screening

AIM

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application integrity monitor

AIN
advanced intelligent network

AIS
alarm indication signal

AIS-L
alarm indication signal for line

AIS-P
alarm indication signal for path

AIU
access interface unit

AIU
application interface unit

AIULC
access interface unit line circuit

ALCB
access link control block

ALCTL
'A' data link control

ALCTR
'A' data link parity counter register

ALE
automatic line evaluation

ALICN
'A' link interface control

ALINK
A-link

ALIT
automatic line insulation test

ALL
all

ALMMDE
alarm retire mode

ALT
automatic link transfer

ALTCN

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alternate control

ALTRKBUSY
all trunks busy

ALW
allow

AM
address manager

AM
administrative module

AMA
automatic message accounting

AMADNS
automatic message accounting data networking services

AMADNS
automatic message accounting data networking system

AMAIRR
automatic message accounting irregularities

AMALOST
automatic message accounting lost

AMAT
automatic message accounting teleprocessing

AMEX
asynchronous transfer mode media transfer

AMI
administrative module intervention

AMI
alternate mark inversion

AML
automatic maintenance limit

AMLOOS
automatic maintenance limit OOS

AMPS
AUTOPLEX(rg mobile phone service

AMTSR
message time slot register

AMXCN

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'A' multiplexer control

AMXER
'A' multiplexer error

AMXM
'A' multiplexer error source mask

ANCB
analog channel bank

ANI
automatic number identification

ANIF
automatic number identification failure

ANM
answer message

ANN
announcement

ANNCSET
announcement set

ANS
answer

ANSER
network servicing system

ANSI
American National Standards Institute

AOC
announcement only channel

AP
application processor

AP
attached processor

AP
automated position

APB
associated process block

APC
adjacent point code

APC

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application-specific controller

APCTL
application control

APCTR
'A' parity error counter

APDL
application processor data link

APID
applications processor identifier

APN
action point numbering

APPEND
append

APPLHOOK
application hook

APPRC
application recent change

APS
automated position system

APS
automatic protection switching

APSODB
access interface unit packet-switching on-demand B-channel

APSSTAT
automatic protection switching status

APSTAT
application status

APT
automatic progression testing

AQ
associated autoquote

AQEST
autoquote establishment

AQM
autoquote mate analog

ARC

alternate route cancellation

ARC
application redundancy control

ARP
address resolution protocol

ARR
automatic ring recovery

ARS
automatic route selection

ARU
audio response unit

ASAP
automated service access prompting

ASC
alarm and status circuit

ASCII
American Standard Code for Information Interchange

ASM
administrative services module

ASP
advanced services platform

ASPLG
advanced service platform large

ASPTF
advanced services platform toll free

ASU
alarm and status unit

ASW
all seems well

ASWIN
all seems well and test interrupt

AT
access tandem

AT
application type

ATA

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automatic task administrator

ATB
address translation buffer

ATCO
automation of terminating code screening/country pair screening override

ATF
ASCII translation file

ATF
announcement test function

ATM
asynchronous transfer mode

ATMLNK
asynchronous transfer mode link measurements

ATMPVC
asynchronous transfer mode permanent virtual circuit

ATMQOS
asynchronous transfer mode quality of service

ATMQOSPS
asynchronous transfer mode quality of service for PSU to PSU

ATMQOSPS
asynchronous transfer mode quality of service packet switch unit

ATP
access transport

ATP
all tests passed

ATS
automated test system

ATTG
attendant group

ATTS
automatic trunk test scheduler

AUTISS
automatic time slot switching

AUTO
automatic

AUTOVON

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automatic voice network

AVL
available

AWS
administrative work station

AXEMR
extended application processor error source mask register

BAF
Bellcore AMA format

BAL
balance

BC
business customer

BCHNEG
B-channel negotiation

BCI
blocked call indication

BCID
business customer identification

BCIRPT
blocked call indicator report

BCLID
bulk calling line identification

BCST
broadcast pump

BE
block errors

BEARERLNK
bearer link measurements

BER
bit error rate

BERR
bus error

BES
bursty errored seconds

BG

background

BGD
bidirectional gating bus direction

BGMN
bearer independent connection control group member number

BHA
backhaul association

BIC
bus interface controller

BICC
bearer independent connection control

BICCG
bearer independent connection control group

BICCSM
bearer independent connection control group/SM measurements

BISO
begin isolation

BIST
built in self test

BITS
building integrated timing supply

BLCTL
B-data link control

BLCTR
B-data link parity counter register

BLICN
'B' link interface control

BLKD
blocked

BLL
base level loop

BLO
blocking

BLV
busy line verification

BMTSR

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B-message time slot register

BMXCN
'B' multiplexer control

BMXER
'B' multiplexer error

BMXM
'B' multiplexer error source mask

BNID
bearer network ID

BNP
basic number portability

BNS
billed number screening

BNS
billing number services

BOLO
back out last official

BOT
beginning of tape

BP
base priority

BPCTR
'B' parity error counter

BPH
backhaul protocol handler

BPH
beginning phase

BPI
bytes per inch

BPINQ
base priority input queue

BPUMP
backup pump

BPV
bi-polar violation

BRCF

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business and residential customer service feature

BRCS
business and residential customer services

BREVC
brevity control

BRI
basic rate interface

BRITE
basic rate interface transmission extension

BSN
backward sequence number

BSRH
high broadcast select

BSRL
low broadcast select

BST
basic services terminal

BST
bitmap salvage technique

BT3
bill-to-third

BTS
base transceiver station

BTSR
bootstrapper

BUD
backup update database

BUSCR
bus control register

BVA
billing validation application

BWM
broadcast warning message

CA
community address

CA2IPMAP

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community address to internet protocol mapping

CACTL
cache control register

CADN
circuit administration

CALEA
communications assistance for law enforcement act

CAMA
centralized automatic message accounting

CAMPON
camp-on

CANC
cancel

CANF
cancel from

CANT
cancel to

CAR
computer access restriction

CAS
customer account service

CATL
code answer test line

CATP
conditional all tests passed

CBLK
carrier blocking

CC
central control

CC
common controller

CCB
channel control block

CCB
communication control buffer

CCB

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communications control buffer

CCB/CLRT
communication control buffer and communication link receiver/transmitter

CCC
commercial credit card

CCH
connections per circuit per hour

CCID
carrier issuer identification

CCIS
common channel interoffice signaling

CCP
common control processor

CCQS
centralized charge quotation system

CCR
continuity check request

CCRD
calling card

CCRDT
calling card restrictions to domestic terminations

CCS
common channel signaling

CCS
hundred call seconds

CCS7
common channel signaling

CCSINIT
common channel signaling initialization

CCSLK
common channel signaling link

CCSP
channel signaling special service

CD
common data

CDAC

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control and diagnostic access circuit

CDAL
control and diagnostic access link

CDB
circuit data block

CDBCOM
circuit data block common

CDBS
customer-defined bill segmentation

CDC
call duration and charge

CDFI
communication link digital facilities interface

CDI
code index

CDI
control and data interface

CDM
call disposition messages

CDMA
code division multiple access

CDN
customer directory number

CE
critical event

CF
call forwarding

CF
control fanout

CFAC
cluster facility

CFBL
call forwarding busy line

CFDA
call forwarding don't answer

CFG

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configuration

CFGSTAT
configuration status

CFT
craft

CG
channel group

CGA
carrier group alarm

CGAP
call gapping

CGB
circuit group blocking

CGBA
circuit group blocking acknowledgement

CGNR
calling number restrictions

CGU
circuit group unblocking

CGUA
circuit group unblocking acknowledgement

CH
channel

CHAN
channel

CHG
charge

CHGRP
channel group

CHN
charge number

CHNG
channel group

CI
carrier interconnect

CI

control interface

CI
critical information

CIB
control interconnect bus

CIC
call identification code

CIC
call instance code

CIC
circuit identification code

CICADA
completion of interLATA calls accessing directory assistance

CICEXP
carrier identification code expansion

CID
call indentification

CID
custom information display

CIF
corruption indication flag

CIP
command in progress

CKT
circuit

CKTLIM
circuit limit

CL
card limit

CLCT
collection

CLCT
control count

CLDIR
call direction

CLDPTY

called party

CLF
clear forward

CLF
communications line fault

CLFI
common language facility identifier

CLI
change level indicator

CLID
calling line identification display

CLLI
common language location identifier

CLNK
communication link

CLNORM
communication link normalization

CLP
cell loss priority

CLR
cleared

CLRT
communication link receiver/transmitter

CLS
combined link set

CM
communication module

CMCU
communication module control unit

CMISE
common management information service element

CMIX
call mix

CMON
craft interface integrity monitor

CMP

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communication module processor

CMPMSG
communication module processor message handler

CMT
common channel signaling message transport

CNAM
calling name

CNC
central node control

CND
calling name display

CND
calling number delivery

CNI
common network interface

CNIDBOC
common network interface database consolidator

CNIREL
common network interface release

CNR
critical node restoration

CNTER
controller error

CNTL
control

CNTLR
controller register

CNTM
controller error source mask

CO
cutover

COFA
change of frame alignment

COFF
common object file format

COINOT

coin service terminal process

COM
common

COM
common controller

COMB
combined

COMDAC
common data and control circuit

COMGR
command group

CONFIG
configuration

CONT
continuity

COO
changeover order

CORC
customer-originated recent change

CORCLOG
customer-originated recent change log

CORR
correcting

COT
central office terminal

COT
continuity

COT
customer-originated trace

CP
call processing

CP
central processor

CP
command present

CPC

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calling party category

CPDL
call processing data link

CPDSR
central processor intervention diagnostic status register

CPE
customer premises equipment

CPI
central processor intervention

CPISR
call processing interface status register

CPN
calling party number

CPNP
calling party number presentation

CPS
country pair screening

CPU
call pick up

CPU
central processing unit

CPUG
call pickup group

CPUT
call pickup terminating

CQ
circuit query

CQDB
call queue data block

CQM
circuit query message

CQR
circuit query response

CR
call record

CRA

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circuit reservation acknowledgment

CRAM
control random access memory

CRC
cyclic redundancy check

CRM
circuit reservation message

CRO
cancel reroute overflow

CRP
central processing unit root pointer

CRR
circuit reset reception

CRS
circuit reset signaling

CS
call screening

CS
circuit switched

CSA
control signal acknowledgement

CSC
clock synchronization circuit

CSCANS
Customer Service Computer Access Network System

CSCP
common service circuit platform

CSD
circuit-switched data

CSI
carrier selection information

CSIX
control and synchronization interface expansion

CSOP
coordinator of spooler output process

CSS

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controlled slip seconds

CSU
channel service unit

CSV
circuit-switched voice

CT
call type

CTC
country-to-country

CTL
control flag

CTRLT
counter latch

CTS
clear-to-send

CTS
control time slot

CTTU
centralized trunk test unit

CU
channel unit

CU
control unit

CUD
central update database

CUMEM
control unit memory

CURR
current

CUSTAT
control unit hardware status

CV
circuit vocoder

CV
coding violations

CVR

circuit validation response

CVT
circuit validation test

CVTGTT
circuit vocoder trunk group transcoding type

CV_STATE
call vectoring state

DA
directory assistance

DAA
direct agent access

DAC
digital/analog converter

DACC
directory assistance call completion

DACT
deactivated

DAL
direct access links

DAM
dual access memory

DAOPER
directory assistance operator

DAP
disk file system access page

DAP
display administration process

DARAM
dual access random access memory

DAS
digit analysis selector

DASC
directory assistance system computer

DAT
digital audio tape

DAY

day

DB
database

DBM
database manager

DBS
duplex bus selector

DC
direct current

DCB
diagnostic control block

DCBU PRI
D-channel backup primary rate interface

DCBU
D-channel backup

DCC
destination code cancellation

DCCB
D-channel control block

DCF
defensive check failure

DCG
default cell group

DCHN
D-channel node

DCHOOS
D-channel is OOS

DCI
dual serial channel/computer interconnect

DCLU
digital carrier line unit

DCR
device control register

DCS
digital cellular switch

DCS

digital communication system

DCT
dispatcher control table

DCTE
dispatcher control table entry

DCTU
directly connected test unit

DCTUCOM
directly connected test unit common board

DCTUPORT
directly connected test unit port

DD
data delivery

DDBIC
duplex dual bus interface controller

DDC
destination data collection

DDD
direct distance dialing

DDL
derived data link

DDMA
diagnostic direct memory access

DDSBS
duplex dual serial bus selector

DEN
digital equipment number

DESEP
destination separation

DEX
demand exercise

DF
data fanout

DF
distribution frame

DFC

destination function code

DFC
disk file controller

DFI
digital facility interface

DFI
digital fanout interface

DFIH
digital facility interface circuit pair

DFIH
host digital facility interface

DFIMP
digital facility interface module processor

DFSA
data file system access

DFTAC
distributing frame test access circuit

DGN
diagnostic

DGR
degraded

DGRD-MIN
degraded minor

DI
data interface

DIAG
diagnostic

DIAGC
diagnostic controller

DIAMON
diagnostic monitor

DID
direct inward dialing

DIDNC
data interface diagnostic control register

DIEMR

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data interface error mask register

DIESR
data interface error source register

DILCR
data interface peripheral interface data bus loop control register

DIOP
disk independent operation

DIOR
direct international originations

DIP
destination IP

DIP
dual in-line package

DIS
disassembly

DIST
distribute

DIST
distribute point board

DKDRV
disk driver

DL
duration limit

DLEMR
interface error mask register

DLESR
dual link interface-module processor interface error source register

DLGSHL
dialogue shell

DLI
dual link interface

DLI-MP
dual link interface-module processor/module controller

DLIT
demand line insulation test

DLIT

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demand line insulation testing

DLM
digital link module

DLN
direct link node

DLSCR
digital link interface switch control register

DLSCR
dual link interface switch control register

DLT
data link terminal

DLTU
digital line and trunk unit

DLTURH
digital line and trunk unit host

DLU
data link unit

DLYR
delayed readiness

DMA
direct memory access

DMAC
direct memory access controller

DMACS
direct memory access command register

DMAEND
dual memory access end

DMAST
direct memory access start

DMCH
direct memory access channel

DMEMBER
dynamic member

DMH
direct message handler

DMI

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dual message interface

DMLHG
defense switch network multi-line hunt group

DMQ
deferred maintenance queue

DN
directory number

DNIC
data network interexchange carrier

DNMSGS
directory number messages

DNU-S
digital network unit - synchronous optical network

DNUSTMC
DNU-S time-slot management channel

DOC
dynamic overload control

DOR
division of revenue

DOTTO
direct international origination offered transfer to operator

DP
dial pulse

DPA
dump all

DPAT
dial plan access treatment

DPB
D-channel port block

DPC
destination point code

DPH
data protocol handler

DPIDB
directly connected peripheral interface data bus

DPLI

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data bus-peripheral link interface

DPLL
digital phase-lock loop

DPLPCTL
data bus-peripheral link interface periphral control register

DPLPEMR
data bus-peripheral link interface periphral error mask register

DPLPESR
data bus-peripheral link interface periphral error source register

DPT
diagnostic phase table

DQD
directory query display

DRC
dynamic random access memory controller

DRCS
dynamic random access memory controller system

DRHR
division of revenue hourly

DRM
distinctive remote module

DS1
digital signal level 1

DS1SFAC
digital signal level 1 SONET facility

DSBLD
disabled

DSC
digital service circuit

DSCH
dual serial channel

DSE
direct signaling event

DSI
digital signal interface

DSIG

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direct signaling

DSL
digital subscriber line

DSLG
digital subscriber line group

DSLGM
digital subscriber line group and member

DSN NM
defense switched network network management

DSN
defense switched network

DSNOFC
defense switch network office

DSP
digital signal processor

DSTT
direct signaling translation test

DSU
digital service unit

DSU2
digital service unit 2

DSU2-RAF
digital service unit 2 - recorded announcement function

DTA
dial through announcement

DTAC
direct test access connection

DTCB
digital channel bank

DTD
dial tone delay

DTDPC
dial tone delay peg count

DTDSC
dial tone sample count

DTE

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data terminating equipment

DTF
dial tone first

DTGOVFL
overflow on a direct trunk group

DTMF
dual tone multi-frequency

DTR
data terminal ready

DUFR
dynamic update function replacer

DUI
direct user interface

DUIC
direct user interface controller

DUR
duration

EA
equal access

EADAS
engineering and administrative data acquisition system

EAI
emergency action interface

EAIOPT
emergency action interface option

EAIU
expansion access interface unit

EAN
equipment access network

EAR
error analysis and recovery

EAS
equal access signaling

EAVM
easy access to voice mail

EBD

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enhanced buffer dump

EBU
E-bus unit

EC
echo canceler

EC1STE
electrical carrier level 1 SONET termination equipment

ECD
equipment configuration database

ECDMAN
equipment configuration database manager

ECDN
expanded customer directory number

ECMA
european computer manufacturers

ECP
executive cellular processor

ECPSRVT
executive cellular processor service type

EDP-R
event detection point request

EDS
electronic directory service

EDSC
electronic directory service customers

EDSL
extended digital subscriber line

EI
emergency interrupt

EIB
ethernet interface board

EIH
error interrupt handler

EIR
enhanced information report

EIS

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external information system

EISO
end isolation

EKTS
electronic key telephone set

EL
enhanced limit

ELI
electrical line interface

ELS
electronic loop segregation

EMA
extended memory addressing

EMM
extended main memory

EMR
emergency restart

EN
equipment number

ENAC
Engineering Network Administration Center

EO
end office

EOC
embedded operations channel

EOD
end of data

EOF
end of file

EOM
end of medium

EON
end office nodal

EOT
end of test

EOT

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end of transmission

EP
emergency preparedness

EPCS
expanded personal communications services

EPH
ending phase

EQCU
equipped CU

EQL
equipment location

EQUIP
equipment

ER
error register

ERAM
early random access memory

ERBLK
errored blocks

ERR1
error course register

ERSRC
error source

ES
errored seconds

ESA
enhanced 911 service adjunct

ESD SK
extended sense data sense key

ESF
extended super frame

ESM
external sanity monitor

ESN
emergency service number

ESP

enhanced service provider

ESP
essential service protection

ESR
error source register

ETE
end-to-end

ETH
ethernet

EVRC
enhanced variable rate coding

EXT
external

FAB
fabric exercise

FAC
facility

FACIL
facility access type

FACR
feature activation counting and reconciliation

FADATA
fault analysis data

FANALM
fan alarm

FARCA
far office community address

FARSN
far office subnetwork

FAS
frame alignment signal

FATLP
fault analysis trouble locating procedure

FC
failure counts

FCA

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far community address

FCCS
forwarded call call screening

FCG
false cross or ground

FCH
fundamental channel

FCM
flow control management

FE
extended framing

FE
family-of-equipment

FE
far end

FELP
far end loop

FERF
far end receive failure

FEX
feature execution

FG
foreground

FGA
feature group A

FGB
feature group B

FGD
feature group D

FI
facility interface

FI
full initialization

FIB
forward indicator bit

FID

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feature identification

FIDB
facilities interface data bus

FIFO
first-in, first-out

FIP
fully initializing protocol

FISU
fill-in signal unit

FIW
frame information word

FLG
flag register

FM
facility management

FM
filemark

FMC
forced management center

FMGR
file manager

FMI
fabric and message interface

FMS
flat and measured services

FN
filename

FNC
forward number check

FP1
feature package one

FPC
foundation peripheral controller

FPCR
full point code routing

FPGA

field programmable gate array

FPI
full process initialization

FPS
Flexent(rg Packet Switch

FR
fault recovery

FR
fixed redundant

FR
flat rate

FR
frame relay

FRBC
frame relay bearer channel

FRC
forced

FRL
facility restriction level

FRPH
frame relay protocol handler

FRQCTL
frequency control

FS
failed seconds

FS
forced switch

FSCMPT
file system compaction

FSD
feature specification document

FSLINK
file system link

FTON
far to near

FTS

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federal telecommunication system

FTS
field test set

FUNCL
function code latch

FW
firmware

FX
foreign exchange

GAC
group alerting circuit

GDG
guard data guard

GDSF
global digital services function

GDSFEN
global digital service function equipment number

GDSU
global digital service unit

GDSUCOM
global digital service unit common board

GDX
gated diode crosspoint

GDXACC
gated diode crosspoint access

GDXC
gated diode crosspoint compensator

GDXCON
gated diode crosspoint controller

GDXCTRL
gated diode crosspoint control

GEN ANN
general announcement

GETS
Government Emergency Telecommunications Service

GETSHPC

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GETS high probability of call completion

GK
generated key

GKBR
generated key bucket reorg

GKCCR
generated key collection and compression routine

GMAC
gigabit ethernet media access control

GMSM
global maintenance switching module

GMT
general message transport

GPITS
general purpose integrated test system

GQPH
general quad-link packet switch protocol handler

GQPHLNK
general quad-link packet switch protocol handler link

GRASP
generic access package

GRC
global recent change

GRE
generic routing encapsulation

GRID
gated diode crosspoint grid

GRIDBD
gated diode crosspoint grid board

GROW
growth

GRS
group reset

GRSI
generic retrofit selective initialization

GSC

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group signaling congestion

GSDB
queue group summary data block

GSM
global switching module

GTT
global title translation

GVAR
global variable

GW
gateway

GWLB
gateway link board

HA
host adapter

HA
host adaptor

HA-ASM
high availability administrative services module

HB
heartbeat

HDFI
host digital facilities interface

HDR
header

HDSU
hardware digital service unit

HDWCHK
hardware check

HEC
header error control

HFAC
host facility

HIM
host interface module

HISRC

high interrupt source register

HIST
history

HLINH
high local interrupt inhibit

HLR
home location register

HLSC
high-level service circuit

HLSCEN
high level service circuit equipment number

HOBIC
hotel billing information center

HOBIS
hotel billing information system

HOC
host collector

HP
high priority

HPC
high probability of completion

HPQ
high priority queue

HRINH
high remote interrupt inhibit

HRSMR
hardware reset source mask register

HRSRC
hardware reset source

HSD
high-speed synchronous data link

HSDC
high-speed synchronous data link controller

HSL
high-speed link

HSLS

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high-speed link set

HSM
host switching module

HSPD
high speed data

HSPD
high speed packet data

HSR
hardware status register

HTR
hard to reach

HV
hardware version

HW
hardware

HW
high-and-wet

IA
ineffective attempts

IAM
initial address message

IBNS
international billed number screening

IBROFC
integrated services digital network business and residential customer services office totals

IC
inter-LATA carrier

IC
interexchange carrier

ICCV
international credit card validation

ICL
inter-remote switching module communication links

ICL
intra-cluster link

ICMP

internet control message protocol

ICS
inmate calling services

ICVC
international card verification center

ID
identification

IDB
inward wide area telecommunications service database

IDCU
integrated digital carrier unit

IDCUTMC
integrated digital carrier unit time-slot management channel

IDENT
identity

IDENT
personal identity

IDLC
integrated digital loop carrier

IDP
individual dialing plan

IDP
individualized dialing plan

IDRM
intelligent distant reliable module

IE
information element

IECP
interexchange carrier preselect

IECSST
inter-exchange carrier start signal timeout

IECSTG
inter-exchange carrier shared trunk group

IF
interface

IFAC

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integrated digital carrier unit facility

IFB
interframe buffer

IFRPH
integrated services digital network frame relay protocol handler

IHL
internet protocol header length

ILA
idle link assurance

ILEN
integrated digital carrier unit line equipment number

ILHB
incoming line history block

ILI
incorrect length indicator

IM
input message

IM
interface module

IMA
ineffective machine attempt

IMLT
integrated mechanized loop test

IMS
interface module system

IMS
interprocess message switch

IMSRMVRST
interprocess message switch remove/restore

IMT
integrated metallic testing

IMT
intermodule trunk

IMTTASK
inter-module trunk task

INC

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incoming

INCBLK
incoming blocked

INCTL
input multiplexer control

INDN
incoming DN

INEN
integrated digital loop carrier network equipment number

INEN
integrated digital loop carrier networking equipment number

INFOANAL
information analyzed

INH
inhibit

INIT
initialization

INSEP
incoming separations

INT
interval

inter-LATA
inter-local access and transport area

INWATS
inward wide area telecommunications service

IO
input/output

IODRV
input/output driver

IOMI
input/output message interface

IOP
input/output processor

IOPPC
input/output processor peripheral controller

IP

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interface processor

IP
internal protocol

IP
internet protocol

IPAM
internet protocol address manager

IPBHSUP
internet protocol backhaul supplemental

IPBPH
internet protocol backhaul protocol handler

IPCFG
internet protocol configuration

IPCT
in-progress call trace

IPCTT
incoming peg count total trunk

IPDEST
internet protocol destination

IPIDB
internal peripheral data bus

IPL
interrupt priority level

IPSHO
internet protocol soft handoff

IPSHOCA
internet protocol soft handoff community address

IPSHOCASUM
internet protocol soft handoff community address summary

IPSHOPH
internet protocol soft handoff protocol handler

IPSHOSUP
internet protocol soft handoff supplemental

IPT
intelligent peripheral trunks

IREX

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installation routine exercise

IRN
integrated ring node

IRR
immediate reroute

IS
in-service

ISAT
integrated services digital network attendant

ISC
intelligent serial controller

ISDN
integrated services digital network

ISDN-PRI
integrated services digital network-primary rate interface

ISGEN
incremental system generation

ISLC
integrated SLC(rg

ISLP
inter-system link protocol

ISLU
integrated services line unit

ISLUCC
integrated services line unit common controller

ISLUCD
integrated services line unit common data

ISLUHLSC
integrated services line unit high level service circuit

ISLULBD
integrated services line unit line board

ISLULC
integrated services line unit line card

ISLULCKT
integrated services line unit line circuit

ISLULG

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integrated services line unit line group

ISLULGC
integrated services line unit line group controller

ISLUMAN
integrated services line unit metallic access network

ISLUPIDB
integrated services line unit peripheral interface data bus

ISLURG
integrated services line unit ringing generator

ISM
integrated services digital network switching module

ISM
inter-switching module

ISMNAIL
inter-switching module nailups

ISMQLNK
inter-switching module quad-link packet switch communcation link

ISMTS
inter-switching module timeslot

ISO
international standards organization

ISOFC
integrated services digital network office

ISP
intermediate switching point

ISPI
integrated services digital network packet interface

ISTF
integrated services test function

ISTFEN
integrated services test facility equipment number

ISUP
integrated services digital network user part

ISVM
inter-switch voice message

ITNA

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improved third number acceptance

ITU-TS
International Telecommunication Union - Telecommunication Standardization Sector

IUN
interprocess message switch user node

IWG
inter-working gateway

IWGFAC
inter-working gateway facility

IWGLI
inter-working gateway link interface

IWUFAC
inter-working unit facility

JIP
jurisdiction information parameter

JMTB
junctors and MTBS activities of modular metallic service unit modules

KP
kernel process

KP
key pulse

KPUPDATE
killable kernel processes

KW
keyword

LAC
line applications for consumers

LAG
line access gateway

LALT
line interface data bus alternate destination

LAN
local area network

LASS
local area signaling services

LATA

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local access and transport area

LATA
local access transport area

LB
line board

LB
line busy

LB
little boot

LBK
loop-back

LC
line card

LCA
local alarm

LCCB
logical channel control block

LCEN
line card equipment number

LCKEN
line circuit equipment number

LCKT
line circuit

LCMDR
link command register

LCN
logical channel number

LDC
long duration call

LDFT
load-disk-from-tape

LDSF
local digital service function

LDSU
local digital service unit

LDSUCOM

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local digital service unit common board

LDSUF
local digital service unit function

LE
link establishment

LEC
local exchange carrier

LEN
line equipment number

LG
line group

LGC
line group controller

LI
link interface

LIA
link inhibit acknowledgement

LIBNS
line information database billed number screening

LICCD
line information database calling card

LIDB
line information database

LIDB
line interface data bus

LIT
line insulation test

LIT
link interface transceiver

LIU
line interface unit

LLA
low level access

LLCB
logical link control block

LLCR

link layer connection record

LLINH
low local interrupt inhibit

LM
layer management

LM
link map

LMODE
link mode register

LN
leased network

LN
link node

LNNODE
leased network node

LNP
local number portability

LOFA
loss of frame alignment

LOGIN
login ID

LOS
loss of signal

LP
line pack

LP
local processor

LP
lock out of protection

LP
logical partitioned

LP
logical processor

LPA
loop-back acknowledgement

LPBK

loop-back

LPC
large packet connection

LPFR
logical processor fixed redundant

LPS
log print status

LPST
line permanent signals

LR
logical redundant

LRAM
late random access memory

LRFR
logical redundant fixed redundant

LRINH
low remote interrupt inhibit

LRN
local reference number

LRN
location routing number

LRT
local remote terminal

LS
linkset

LS
listing services

LSA
line number service application

LSF
local area signaling services selective feature

LSI
loop side interface

LSM
local switching module

LSSGR

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local switching system general requirements

LSSU
link status signaling unit

LT
line termination

LTD
local test desk

LTE
line terminating equipment

LTMSTAT
logical termination busy/idle status

LTP
logical test port

LTSB
line time slot bridging

LU
line unit

LU
logical unit

LU2
line unit model 2

LU3
line unit model 3

LUA
link uninhibit acknowledgement

LUCHAN
line unit channel

LUCHBD
line unit channel board

LUCOMC
line unit common control

LUHLSC
line unit high level service circuit

LUPEX
line unit path exerciser

MA

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metallic access

MAB
metallic access bus

MAC
media access control

MAC
memory administration center

MACTL
memory auxiliary control

MAEC
media access error counter

MAJ
major

MAN
metallic access network

MAP
mobile application part

MAS
main store

MASA
mainstore array

MASC
main store controller

MATE
mate memory

MBD
message buffer dump

MBG
multiswitch business group

MC
microcode

MCA
multiple call appearance

MCC
Master Control Center

MCC

maintenance call clearing

MCH
maintenance channel

MCIP
multiple calls in progress

MCO
manual change over

MCRT
maintenance cathode ray tube terminal

MCTRL
maintenance control

MCTSI
module controller and time slot interchanger

MCTU2
module controller and time slot interchanger unit 2

MCU
module controller unit

MD
message delivery

MDCT
major device chain table

MDCT
minor device chain table

MDCT
monitor device configuration table

MDCT-RID
minor device chain table record ID

MDII
machine-detected interoffice irregularities

MDR
message detail recording

MECH
more efficient call handling

MEID
mobile equipment ID

MELNK

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module controller and time slot interchanger ethernet link

MEMB
member

MEMES
memory error source

MEMMAN
memory management bitmap data base audit

MEPIPE
module controller and time slot interchanger ethernet pipe

MESMR
memory error source mask register

METS
maximum engineered time slots

MF
multi-frequency

MFR
maximum frame register

MFT
modular feature type

MGDSC
message discard

MGSC
message service customer

MGSG
message service multi-line hunt group

MGU
maintenance group unblocking

MH
message handler

MHD
moving head disk

MHEIB
message handler ethernet interface boards

MHLB
message handler little boot

MHPPC

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message handler PowerPC(rg

MHPPCLB
message handler PowerPC(rg little boot

MHTR
manual hard-to-reach

MI
management initiated

MI
message interface

MIB
message interface bus

MIBSEL
message interface bus select

MICON
message interface configuration

MICU
message interface clock unit

MICU
message interface control unit

MIM
maintenance information message

MIN
minimum

MINT
multifarious intra-network trunk

MIRA
maintenance input request administrator

MIS/C
management information system/computer

MISC
miscellaneous

MISLNK
management information system data link

MLHG
multi-line hunt group

MLI

message link interface

MLNC
matching loss and no circuit

MLPP
multi-level precedence and preemption

MLTS
micro level test set

MMGR
memory manager

MMP
module message processor

MMP1
module message processor in a CM1 environment

MMP2
module message processor in a CM2 environment

MMRSM
multi-module remote switching module

MMSU
modular metallic service unit

MMU
memory management unit

MNTFS
mount off-line file system

MOC
measurement output control

MODE
mode register

MON
monitor

MOP
mount off-line partition

MOPP
mount off-line partition process

MP
micro processor

MP

modem pool

MP
module processor

MP
multi-point

MPG
modem pool group

MPR
machine performance report

MRA
maintenance request administrator

MRD
message retrieval display

MRVA
message transfer part routing verification acknowledgement

MRVR
message transfer part routing verification result

MRVT
message transfer part route verification test

MS
manual switch

MSA
module stand-alone mode

MSC
message service center

MSC
mobile switching center

MSCFR
miscellaneous frame

MSCU
message switch control unit

MSDC
fault report measurement process

MSGBUF
message buffer

MSGCLS

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message class

MSGH
message handler

MSGS
message switch

MSID
mobile station ID

MSK1
mask 1

MSK2
mask 2

MSKP
message switch kernal processor

MSMTCH
mismatch

MSPU
message switch peripheral unit

MSS
message service system

MSU
message signaling unit

MSU
metallic service unit

MSUCOM
metallic service unit common circuit board

MSW
message switch module

MT
magnetic tape

MTB
metallic test bus

MTC
magnetic tape controller

MTCE
maintenance

MTIB

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metallic test interconnect bus

MTIBAX
metallic test interconnect bus access

MTP
message transfer part

MTP
message transfer point

MTP-NM
message transfer part level 3 network management

MTTY
maintenance teletypewriter

MTTYC
maintenance teletypewriter controller

MUA
maintenance group unblocking acknowledge

MUPH
multi-position hunt

MWI
message waiting indicator

NA
not applicable

NAC
network administration center

NACK
non-acknowledgement

NAI
network access interrupt

NANP
North American numbering plan

NAP
name privacy

NAUD
node audit

NBRLIST
neighbor list

NC

network clock

NCA
near community address

NCD
network call denial

NCE
non-correctable bit error

NCID
network connection identifier

NCLK
network clock

NCOSC
network clock oscillator

NCP
network control point

NCREF
network clock reference

NCT CTRL
network control and timing control register

NCT ESR
network control and timing error source register

NCT
network control and timing

NE
near end

NEARCA
near office community address

NEN
network equipment number

NGSM
non-global switching module

NI
national ISDN

NI
network interconnect

NICC

normalized call instance code

NID
network identifier

NIP
non-initializing protocol

NLBIST
network link interface built in self test register

NLEMR
network link interface error mask register

NLESR
network link interface error source register

NLI
network link interface

NLLCR
network link interface link control register

NM
network management

NMI
non-maskable interrupt

NMNODES
management node schedule

NMTHD
network management threshold

NNDA
name/number display allowed

NNP
name/number privacy

NOC
network operations center

NODEST
node state

NOP
no-operation message

NP
network processor

NP

node processor

NP
number portability

NPA
numbering plan area

NPB
not position busy

NPH
network protocol handler

NPHSUP
network protocol handler supplemental

NPUMP
normal pump

NRA
network remote access

NRBTO
no response/bus timeout error

NREL
new release

NRODD
non-redundant office-dependent data

NRT
no response test

NS
national security

NS
number services

NSD
network services division

NSEP
National Security Emergency Preparedness

NSEP
network systems engineering practice

NSN
network switch number

NT

network termination

NT1
network termination type 1

NTE
network termination equipment

NTR
no test run

NTTU
no-test test trunk unit

NTWK
network

NTWK_O
network only

NVMEM
non-volatile memory

NWN
non-working number

NXX
office code--part of a dialed number

OA&M
operations, administration, and maintenance

OAM&P
operations, administration, maintenance, and provisioning

OAP
operator services position system administrative processor

OC
office code

OC3C
optical carrier level 3 concatenated

OCAS
OSPS customer account services

OCDCL
optical control and data control link

OCDCL
optical extended control and data control link

OCDCOM

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optical extended control and data common circuit pack

OCOIN
OSPS toll and assistance coin

OCTD
OSPS centralized automated message accounting tone decoder

OCU
office channel unit

ODA
office data administration

ODB
on-demand B-channel

ODBE
office-dependent database editor

ODD
office-dependent data

ODIN
on line data integrity system

ODMA
operational direct memory access

ODP
office dialing plan

ODP
on-demand packet

ODPS
on-demand packet-switched

ODR
optional data region

OE
office equipment

OE
originating equipment

OEIS
operator services position system external information system

OEN
office equipment number

OFA

operator services position system facility administration

OFC
office

OFC
official

OFF
operator services position system fast features

OFFN
off-normal

OFFSET
offset

OFI
optical facility interface

OFL
offline

OFLBOOT
offline boot

OFR
office records

OGEN
overwrite generator

OHD
off-hook delay

OILD
overwrite incremental loader

OINTA
operator services position system interflow listing services/commercial-automatic call distributor measures

OIOP
operational input/output processor

OIP
originating internet protocol

OIRCV
operator services position system interflow toll and assistance calls received

OISNT
operator services position system interflow toll and assistance calls sent

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OIU
optical interface unit

OIUEN
optical interface unit equipment number

OIUPG
optical interface unit protection group

OKP
operational kernel process

OLAC
OSPS line applications for consumers

OLHB
outgoing line history block

OLI
originating line information

OLMP
on-line mount point

OLNS
operator services position system line applications for consumers

OLNS
originating line number screening

OLS
originating line screening

OMDB
output message database

OMISC
operator services position system miscellaneous calls

OMP-FX
Flexent(rg Operations and Management Platform

ONAC
Operations Network Administration Center

ONI
operator number identification

ONTC
office network and timing complex

ONTC-AP
ONTC application processor

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ONTCCOM
office network and timing complex common

OOF
out-of-frame

OOR
out-of-range

OOS MAN RMV
out-of-service, manual removed

OOS ROTF
out-of-service routine operational test failure

OOS TBLA
out-of-service trouble analysis

OOS TMP
out-of-service temporary

OOS
out-of-service

OOS-FE
out-of-service family-of-equipment

OOST
out-of-service test

OP
output

OPC
originating point code

OPCTT
outgoing peg count total trunk

OPER
operational

OPS
originating packet switch

ORIG
originating

ORM
optically remote module

ORTR
operator services position system real-time rating

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OSCXC
network clock 2 oscillator cross-couple

OSDS
operating system for distributed switching

OSO
originating screening office

OSPS
operator services position system

OSPS-DL
operator services position system data links

OSPSPORT
operator services position system port

OSR
operational software restart

OSS
operating services system

OSS
operational support system

OST
operating system trap

OT
originating treatment

OT
outpulse timing

OTA
operator services position system toll and assistance

OTAP
operator services position system toll and assistance performance

OTO
office-to-office

OTO
originating toll office

OTP
originating terminal process

OTR
operator trouble report

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OUTG
outgoing

OUTWATS
outward wide area telecommunications service

OVFL
overflow

OVMS
OSPS voice messaging service

OVOEQ
operator services position system call volume and equipment usage

OVRLD
overload

OVRWT
overwrite

OXU
optical extended control and data unit

PA
program address

PACMAN
pump and control message advancement node

PAFFR
pre-active flip-flop register

PAG
packet access gateway

PANDA
processor asset and network debug asset

PAS
protected application segment

PAT
plan alternate treatment

PAUTH
person authority

PB
position busy

PB
proportionate bidding

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PBG
packet business group

PBOCC
packet bus occupancy

PBX
private branch exchange

PC
peripheral controller

PC
point code

PCB
process control block

PCBLA
process control block link area

PCF
packet control function

PCGRP
person-command group

PCI
peripheral component interconnect

PCN
privacy of calling name

PCPAUD
processor control process audit

PCRGRP
processor group

PCS
personal communications services

PCSD
peripheral controller subdevice

PCSDN
personal communications services directory number

PCSOFC
personal communications services office

PCT
peripheral control and timing

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PCTDX
peripheral control and timing data exchanger

PCTF
per-call test failure

PCTF
printing per call test failure

PCTFI
peripheral control and timing facility interface

PCUSD
packet switching uniform call distribution

PD
previous day

PDATA
peripheral data

PDN
primary directory number

PDS
program documentation standards

PDSN
packet data switch network

PDT
partial dial time-out

PDT
physical disk-to-tape

PDU
protocol data unit

PE
protocol error

PEC
protocol error code

PEN
path equipment number

PER
protocol error record

PERAD
peripheral address

PERPH
peripheral

PERR
parity error

PF
packet fanout

PFA
private facility access

PFI
physical fault insertion

PFR
peripheral fault recovery

PFS
packet frame selector

PFSTGTT
packet frame selector trunk group transcoding type

PFSTGTT
primary feedback system trunk group transcoding type

PG
protection group

PH
phase

PH
protocol handler

PHA
protocol handler for asynchronous transfer mode

PHA1
protocol handler for asynchronous transver mode version 1

PHA1A
protocol handler for ATM resident software image

PHDB
protocol handler data bus

PHE
protocol handler for ethernet

PHE1
protocol handler for ethernet version 1

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PHE2
protocol handler for ethernet version 2

PHE4s
protocol handler for ethernet version 4s

PHEN
protocol handler equipment number

PHGRP
protocol handler group

PHV
packet handler voice

PHV
protocol handler for voice

PHV
protocol handler version

PI
packet interface

PI
peripheral interface

PIB
power interlock board

PIC
peripheral interface controller

PIC
presubscribed inter-exchange carrier

PICB
peripheral interface control bus

PID
process identification

PIDB
peripheral interface data bus

PIN
personal identification number

PING
packet internet groper

PIO
peripheral I/O sub-system

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PIO
programed input/output

PIT
programmable interval timer

PKG
package

PKTDN
packet directory number

PKTG
packet group

PKTGP
packet trunk group

PKTGRP
packet group

PL
purchase limit

PLBIST
peripheral link interface built in self test register

PLBQ
purchase limit balance quotation

PLBST
data bus-peripheral link interface built in self test register

PLEMR
peripheral link interface error mask register

PLESR
peripheral link interface error source register

PLI
peripheral link interface

PLIB
public library

PLL
phase locked loop

PLLCR
peripheral link interface link control register

PLLCTL
phase locked loop control

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PLNTHR
hourly plant

PLS
protection line switch

PLTEN
peripheral control and timing line and trunk unit number

PLTLK
peripheral control and timing line and trunk unit link

PLTU
peripheral control and timing line and trunk unit

PM
performance monitoring

PM
primary maintenance

PM
protocol monitoring

PMCFF
protocol monitoring common format file

PMCR
plant measurements common report

PMDB
process message data block

PMGR
process manager

PMS
plant measurements system

PMU
precision measurement unit

PMU
pulse metering unit

PNI
private network interface

PO
processor outage

POC
peripheral object file converter

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POH
path overhead

POPCLU
populated cluster

POTS
plain old telephone service

PP
packet pipe

PP
port processor

PPB
permanent packet B-channel

PPC
pump peripheral controller

PPM
packet pipe member

PPMTC
periodic pulse metering circuit

PPP
point-to-point protocol

PPPLK
point-to-point protocol link

PR
packet routing

PRERCR
pre-software release recent change reapplication

PREV
previous

PRI
primary rate interface

PRIGRP
primary rate interface group

PRIM
primary

PRINT
print

PRISM
packet routing for intra-switch messaging

PRL
population rule language

PRM
processor recovery message

PROAD1
process administration audit

PROC
processor

PROC1
processor status 1 register

PROC2
processor status 2 register

PROC3
processor status 3 register

PROFL
profile

PROM
programmable read-only memory

PROT
protection

PROT
protocol

PROTO
protocol bus

PS
packet switching

PSALNK
packet switching unit asynchronous transfer mode link

PSAP
public safety answering point

PSC
processor signaling congestion

PSC
protection switch count

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PSD
packet switched data

PSDI4
personal identification number service denial indicator of 4

PSE
packet switching unit ethernet

PSELNK
packet switching ethernet link

PSGRP
packet switching group

PSLNK
packet switching unit link

PSLT
periodic signaling link test

PSM
power switch monitor

PSML
packet switching maintenance limit

PSN
packet switching number

PSOFC
packet switching office

PSPH
packet switching protocol handler

PSPORT
packet switching protocol handler port

PSR
patch space recovery

PSSM
packet switching per switching module

PSSWD
password

PSTG
packet switching trunk group

PSU
packet switching unit

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PSU2E
packet switching unit version 2 enhanced

PSUCA
packet switching unit community address

PSUCHAN
packet switching unit channel

PSUCOM
packet switching unit common controller

PSUPH
packet switching unit protocol handler

PSUSHELF
packet switching unit shelf

PSW
processor status word

PSW
program status word

PT
public telephone

PTC
point code

PTE
path terminating equipment

PTF
personal toll-free

PTRACE
program trace

PTSB
packet switching unit time slot block

PTSB
peripheral interface data bus time slot block

PU
program update

PURGE-CNT
purge count

PUT
port under test

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PUTBRG
port under test bridge

PV
packet vocoder

PVC
permanent virtual circuit

PVELBK
protocol handler voice encoding loopback

PVOL
positioning volume

PVTGTT
packet vocoder trunk group transcoding type

PWRUP
power-up

PX
power cross

QANN
queuing announcement

QGL
quad-link packet switch gateway link

QGP
quad-link packet switch gateway processor

QGP-AP
quad-link packet switch gateway processor application processor

QGP-MSGH
quad-link packet switch gateway processor message handler processor

QID
query identifier

QLFR CON
quad-link packet system link fault recovery configuration process

QLFR
quad-link fault recovery

QLI
quad-link interface

QLL
quad-link packet switch logical link

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QLNK
quad-link packet switch communication link

QLPS
quad-link packet switch

QPH
quad-link packet switch protocol handler

QPHLNK
quad-link packet switch protocol handler link

QPIPE
quad-link packet system gateway processor

QRY
query

QSF
queuing for simulated facility

QTG
queuing for trunk group

QTMSLNK
quad-link packet switch time multiplexed switch link

QTS
quarter time-slot

QUAN
quantity

QUICC
quad-integrated communications controller

RAF
recorded announcement facility

RAF
recorded announcement function

RAIU
remote access interface unit

RAM
random access memory

RAO
regional accounting office

RAO
revenue accounting office

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RAP
recorded announcement port

RAS
remote access services

RAS
remote alarm section

RAU
remote alarm unit

RAU
remote switching module alarm unit

RC
receive control

RC
recent change

RC/V
recent change and verify

RCDM
recent change delayed message

RCF
ring continuity failure

RCIC
raw call instance code

RCIW
receive cell information word

RCL
remote communication link

RCLK
remote clock

RCLOG
recent change and verify log

RCOS
recent change operations system

RCOSC
remote clock oscillator

RCOXC
remote clock oscillator cross couple

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RCR
recent change reapplication

RCREF
remote clock reference

RCSECGRP
recent change security group

RCV
recent change and verify

RCXC
remote clock cross couple

RDFI
remote digital facilities interface

RDFI
remote switching module digital facilities interface

RDI
remote defect indication

RDI-L
remote defect indication for line

RDI-P
remote defect indication for path

RDT
remote digital terminal

RDTA
remote digital test access

RE
return error

RECLVL
protocol level recorded

RECPRINT
records report generator process

RED
redundant

REFERR
reference error

REFLG
empty flag register

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REL
relation

REL
release

REMACS
remote access subsystem

REPGEN
report generator process

RESP
response

REX
routine exerciser

RFD
receive frame descriptor

RFIW
receive frame information word

RFMB-CDM
request for more balance call disposition message

RG
ring generator

RG
ringing generator

RGRASP
ring generic access package

RI
ring interface

RID
record identification

RINGMON
ring monitor process

RIS
receive idle signaling

RISLU CC
remove and restore remote ISLU common control

RISLU
remote integrated services line unit

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RIUSBL
ring interface usable

RL
release link

RLC
release complete

RLG
release guard

RLI
remote link interface

RLP
radio link protocol

RMB
removable medium

RMF
recovery message formatter

RMV
remove

RN
redirecting number

RN
ring node

RNA
ring node address

RNMC
remote network management center

RNMS
remote network management system

RODD
redundant office-dependent data

ROH
receiver off-hook

ROM
read-only memory

ROP
read-only printer

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ROS
request out-of-service

ROTL
remote office test line

RP
revertive pulsing

RPC
ring peripheral controller

RPC
routine port conditioning

RPCN
ring peripheral controller node

RPCU
radio port controller unit

RPI
return to point of interrupt

RPI
routing priority index

RPT
repeat

RR
reroute

RR
return result

RRB
ring receive buffer

RRC
reroute trunk group control

RRCLK
remote clock circuit pack

RRCLK
remote integrated services line unit remote clock

RSC
reset circuit

RSIT
remote site standalone

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RSM
remote switching module

RSM-TSI
remote switching module time-slot interchange

RSMSK
reset mask

RST
reset

RST
restore

RSTSR
reset error source register

RT PLS
remote terminal protection line switch

RT&M
remote talk and monitor

RT
remote terminal

RTA
routing and terminal allocation

RTAG
return tag

RTBM
real time billing memory

RTC
real time clock

RTCD
real time call detail

RTD
round trip delay

RTI
route index

RTI
routing index

RTN
routine

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RTP
real time transfer protocol

RTRACK
ring tracker

RTRS
real time rating system

RTS
real time status

RTS
request to send

RTT
reply to translation test

RTX
real time executive

RVF
restore verify test

RVPT
revertive pulsing transceiver

SA
shadow address

SAAL HSL
signaling asynchronous transfer mode adaptation layer - high speed link

SAAL
signaling asynchronous transfer mode adaption layer

SAB
subaccount billing

SABM
stand alone billing memory

SAC
service access code

SAD
system access delay

SADC
special access data channel

SAPI
service application point identifier

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SAR
store address register

SAS
sender attached signal

SAS
service announcement system

SAT
store address translator

SBUS
small computer system interface bus

SCA
selective call acceptance

SCAN
scan point board

SCANS
software change administration and notification system

SCANS-2
Software Change Administration and Notification System

SCC
serial communications controller

SCC
switching control center

SCCP
signaling connection control part

SCCS
source code control system

SCF
selective call forwarding

SCH
supplemental channel

SCMDB
shared call model data block

SCMG
signaling connection control part network management

SCO
switch cutoff

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SCOC
signal connection control point oriented control

SCP
service control point

SCR
selective call rejection

SCR
store control register

SCSD
scanner and signal distributor

SCSDA
scanner and signal distributor administrator

SCSDC
scanner and signal distributor controller

SCSI
small computer system interface

SCTP
stream control transmission protocol

SCTPHB
session control transport protocol heartbeat

SD
sequenced data

SD
signal degrade

SDA
selective distinctive alert

SDAP
speed dialing autoprovisioning

SDC
speed dial code

SDD
start dial delay

SDE
segment descriptor entry

SDF
special device file

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SDFI
SLC(rg 96 digital facility interface

SDFN
speed dial forward number

SDH
synchronous digital hierarchy

SDH-TE
synchronous digital hierarchy transport equipment

SDL
signaling data link

SDL
speed dialing list

SDL
synchronous data link

SDLC
synchronous data link controller

SDLRTC
synchronous data link restore tool communications protocol handler

SDLRTN
synchronous data link restore tool network protocol handler

SDN
software-defined network

SDP
software demand paging

SDR
store data register

SDS
shared data segment

SEC
secondary reference

SECT
sectionalization

SEG
segment

SEQ
sequence

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SERR
system error

SES
session

SES
severely errored seconds

SESMR
subunit error source mask register

SESR
subunit error source register

SESRM
control and synchronization interface expansion summary error source register mask

SF
signal failure

SFC
source function code

SFG
simulated facilities group

SFI
STSX-1 facility interface

SFI
signal facility interface

SFV
summary flag vector

SG
service group

SG
switch group

SG
system generation

SGEN
system generation

SGRO
special growth

SGROW
special grow

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SH
speech handler

SHADDR
shadow address register

SHBCR
shadowed bus control register

SHDN
shared directory number

SHO
soft handoff

SHOPH
soft handoff protocol handler

SHOPR
shadowed operations register

SHT
speech handler trunk

SHTG
speech handler trunk group

SHWP
shadow hardware write protect

SI
screening index

SI
system integrity

SIA
special intercept announcement

SIB
status indication busy

SID
SLC(rg 96 identification

SID
site identification

SID
station identification

SIE
status indicator emergency

SIF
service information field

SIGI
signaling irregularities

SILC
selective incoming load control

SIM
system integrity monitor

SIMCNTL
system integrity monitor control

SIN
status indicator normal

SIO
service information octet

SIOF
system integrity output formatter

SIOS
status indicator out-of-service

SIP
session initiation protocol

SIP-T PH
session initiation protocol for telephony protocol handler

SIP-T
session initiation protocol for telephony

SIPPH
session initiation protocol protocol handler

SJR
small computer system interface job response

SL
signaling link

SL
single limit

SLE
screen list editing

SLEN
SLC(rg 96 line equipment number

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SLIM
subscriber line instrument measurement circuit

SLIM
subscriber loop interface module

SLK
signaling link

SLM
signaling link management

SLMK
signaling link maintenance kernel

SLP
signaling link performance

SLS
signaling link selection

SLS
signaling link set

SM
switch maintenance

SM
switching module

SM-2000
switching module-2000

SMATMLINK
switching module asynchronous transfer mode link measurements

SMC
switching module control

SMD
storage module drive

SME
signaling message encryption

SMEAS
signaling measurements

SMEMBER
static member

SMER
switch maintenance error recognition process

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SMIWGPCT
switching module interworking gateway peripheral control and timing measurements

SMKP
switch maintenance kernel process

SMM
standard main memory

SMODD
switching module office-dependent data

SMP
switching module processor

SMS
service management system

SMS
switching module system

SMST
switching module system test

SN
subnetwork

SNAT
signaling network administration time

SNM
signaling network management

SNP
signaling network performance

SNTM
signaling network traffic management

SODD
static office-dependent data

SOF
spooler output function

SOH
section overhead

SONET
synchronous optical network

SOP
service order profile

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SOP
spooler output process

SOST
special operator services traffic

SP
scan point

SP
sent paid

SP
signal processor

SP
signaling point

SPCTL
signal processor control register

SPESR
signal processor error source register

SPI
signaling path indicator

SPID
service profile identification

SPP
single process purge

SPYDER-256
synchronous/asynchronous protocol data formatter with 256 channels

SQA
simulated facility group queuing announcement

SRA
switching resource allocator

SRCIP
source internet protocol

SRM
software resource measurement

SRP
supervisor root pointer

SRR
software release retrofit

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SRSMR
software reset source mask register

SRSRC
software reset source register

SRST
signaling route set test

SRU
software release update

SRVA
signaling connection control port routing verification acknowledgement

SRVT
signaling connection control port routing verification test

SS
slip seconds

SSC
special services code

SSCOP
service-specific connection-oriented protocol

SSD
second start dial

SSD
shared secret data

SSH
secure shell

SSI
small scale integration

SSN
subsystem number

SSP
service switching point

SSR
system status register

SST
short supervisory transition

SSTR
service selective trunk reservation

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STARS
system timing and reference synchronization

STBY
standby

STDBY
standby

STE
signaling terminal equipment

STE
synchronous optical network terminating equipment

STF
some tests fail

STGOVFL
overflow on a secondary trunk group

STKWD
stack window

STLWS
supplimentary trunk and line work station

STP
service transfer point

STP
signal transfer point

STP
signaling transfer point

STP
stop

STRM
signaling traffic route and management

STS
synchronous transport signal

STS-1
synchronous transport signal level 1

STS3C
synchronous transport signal level 3 concatenated

STSFAC
synchronous transport signal facility

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STSX-1
synchronous transport signal electrical interface

SU
signal unit

SU
software update

SUBRR
subunit ready register

SVC
switched virtual circuit

SVERS
system timing and reference synchronization device version

SWPCT
subunit write-protect control register

SYMIDX
symbol index number

SYNC
synchronization

SYU
synchronized signal unit

T&A
toll and assistance

TA
toll assistance

TAC
technical assistance center

TAC
test access circuit

TAC
test and access

TAC
test and access circuit

TAG
trunk access gateway

TALOOPDB
toll and assistance LOOP database

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TAOPER
toll assistance operator

TAT
terminating attempt trigger

TAU
test access unit

TAU
trunk access unit

TAUTH
terminal authority

TBCU
test bus control unit

TBCU
trunk bus control unit

TBI
to-be-idled

TBLA
trouble analysis

TBO
time base offset

TC
transaction capability

TCA
telephone company administration

TCA
threshold crossing alert

TCAP
transaction capability application part

TCGRP
terminal-command group

TCIW
transmit cell information word

TCN
T1 FA control node

TCP/IP
transmission control protocol/internet protocol

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TCS
terminating code screening

TCTS
transmission rate converter unit version 3 control time slot

TD
tone decoder

TDB
task data block

TDC
traffic data collection

TDM
time division multiplexing

TDP-R
trigger detection point request

TDTP
traffic diversion terminal process

TEC
test execution control

TEI
terminal endpoint identifier

TEN
trunk equipment number

TERA
trunk error analysis

TERM
terminating

TF
toll free

TFD
transmit frame descriptor

TFM
traffic flow management

TFTP
trivial file transfer protocol

TG
trunk group

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TG-5
5ESS(rg Switch Translation Guide

TGC
trunk group control

TGCNT
trunk group threshold count

TGFLAG
trunk group flag

TGID
terminal group identifier

TGMNCNT
trunk group member threshold count

TGN
trunk group number

TGSR
terminal group station restriction

TKG
trunk group

TKGMN
trunk group member number

TL
test line

TLP
trouble locating procedure

TLWS
trunk and line work station

TM
terminal management

TMC
time slot management channel

TMH
transfer message handler

TMO
maximum hours for next automatic line insulation test

TMP
temporary

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TMS
time multiplexed switch

TMSCON
time multiplexed switch configuration

TMSF
time multiplexed foundation

TMSFP
time multiplexed switch fabric pair

TMSLNK
time multiplexed switch link

TMSU
time multiplexed switch unit

TMSX
time multiplexed expansion

TMUX
transmission multiplexer

TN
telephone number

TO
time out

TOD
time of day

TOP
tape operating procedure

TOP
tape-only program

TOP
task oriented practice

TP
test position

TPC
translation point code

TPR
terminating point restriction

TPS
terminating packet switch

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TQA
trunk group queuing announcement

TR
trunk reservation

TRBLCD
trouble code

TRCP
transmission rate converter unit path

TRCU
transmission rate converter unit

TRCU3
transmission rate conversion unit - model III

TRFCH
traffic channel

TRIB
tributary

TRIGLVL
trigger level

TRM
trunk remoted module

TRM
two-mile optical remote switching module

TRMG
terminal group

TRUMP
trunk maintenance package

TRUNK
trunk maintenance

TS
time slot

TSBEMR
time slot interchange board error mask register

TSBSTCR
signal processor diagnostic control register

TSC
temporary signaling connection

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TSCMCCR
time slot interchange clock control register

TSCMDNR
time slot interchange common diagnostic control register

TSCMEMR
time slot interchange common error mask register

TSCMESR
time slot interchange common error source register

TSCRESR
TSI board CRAM error source register

TSCRMDG
time slot interchange board CRAM device diagnostic register

TSDB
time slot data block

TSGRP
time slot group

TSI
time slot interchange

TSICOM
time slot interchange common board

TSIFCTL
time slot interchange interface control register

TSIFDGC
time slot interchange interface diagnostic control register

TSIFESR
time slot interchange interface error source register

TSIU
time slot interchange unit

TSIUEQP
time slot interchange equipage register

TSIUIMR
time slot interchange interrupt summary error mask register

TSIUISR
time slot interchange interrupt summary error source register

TSM
time slot measurements

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TSM
trunk status mapping

TSP
translation signaling point

TSPS
traffic service position system

TSS
time slot select

TSSR
time slot select register

TSTCTL
test signal control

TT
touch tone

TT
translation type

TTF
touch tone fraud

TTF
transmission test facility

TTF
transmission test function

TTFCOM
transmission test facility common control

TTL
time to live

TTP
terminating terminal process

TTY
teletypewriter

TTYC
teletypewriter controller

TU
trunk unit

TUCHBD
trunk unit channel board

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TUP
telephone user part

TV
transfer vector

TX
tone transceivers

UA
unnumbered acknowledgement

UAS
user agent server

UBS
unsuccessful backward setup

UC
utility circuit

UCB
unit control block

UCD
uniform call distribution

UCI
unified control interface

UCIC
unequipped circuit identification code

UCL
unconditional

UCONF
universal conference

UCR
unidentified call rejection

UCS
user control string

UCT
utility call trace

UDP
user datagram protocol

UDTS
unit data services

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UF
update file

UID
utility identification

ULARP
user level automatic restart process

UMB
T1 umbilical

UMBIL
umbilical

UNA
unassigned

UNAV
unavailable

UNI
unidirectional

UNLD
unloader

UNP
uniform number plan

UO-CDM
update-only call disposition message

UPCKIN
user part check-in

UPD
update

UPNM
update name

UPOPCLU
unpopulated cluster

UPPS
user-provided passed screening

UPT
universal pointer table

USG
usage

USPID
user service profile identifier

UT
utility

UTD
universal tone decoder

UTD
universal tone detector

UTG
universal tone generator

UTS
umbilical time slot

UUI
user-to-user information

UVAR
utility variable

VAR
variable

VAT
voice access test

VBRI
virtual basic rate interface

VBS
voice band data services

VCC
virtual channel connection

VCDX
very compact digital exchange

VCF
virtual card format

VCI
virtual channel identifier

VCID
virtual connection identifier

VCO
voltage-controlled oscillator

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VCXO
voltage-controlled crystal oscillator

VDT
video display terminal

VER
version

VFL
voice frequency link

VFLAG
video flag

VFY
verify

VIOP
virtual input/output processor

VISA
vocoder interrupt and serial access

VL
virtual link

VL
volume limit

VLMM
very large main memory

VM
voice message

VMS
voice messaging service

VNCR
virtual network conference resource

VPA
voice path assurance

VPATH
virtual path

VPC
virtual path connection

VPI
virtual path identifier

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VPN
virtual private network

VSELP
vector sum excited linear predictive vocoder algorithm

VT
virtual tributary

VT1FAC
virtual tributary level 1 facility

VTGRM
virtual tributary 1.5 member

VTGRP
virtual tributary 1.5 group

VTOC
volume table of contents

VTTY
virtual teletypewriter

VTTYC
virtual teletypewriter controller

WATS
wide area telephone service

WBTGMEAS
wideband trunk group measurement

WNC
wireless network controller

WTD
what to do

XAIU
multiplexed access interface unit

XAT
X.25 packet switching on T1 facility

XC
cross-couple reference

XC
transmit control

XCDCOM
extended control and data unit common board

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XCDU
extended control and data unit

XDB
external database

XPC
BX.25 level 2 protocol controller

ZBTSI
zero byte time slot interchange

ZCS
zero code suppression

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4. INDEXES

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FUNCT INDEX

Software Release: 5E15 and later

1. ACCESS INTERFACE UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests that actions be aborted on an access interface unit common data and control controller (COMDAC).	ABT:AIUCOM 5E15 and later
Requests that actions be aborted on an access interface unit (AIU) line circuit (LC).	ABT:AIULC 5E15 and later
Requests that actions be aborted on an access interface unit (AIU) line pack (LP).	ABT:AIULP 5E15 and later
Requests that actions be aborted on an access interface unit (AIU) timeslot group (TSGRP).	ABT:AIUPIDB 5E15 and later
Requests that actions be aborted on an access interface unit (AIU) ring generator (RG).	ABT:AIURG 5E15 and later
Allows hardware checks on an access interface unit (AIU).	ALW:HDW-AIU 5E15 and later
Requests that diagnostics be executed on an access interface unit common data and control controller (COMDAC).	DGN:AIUCOM 5E15 and later
Requests that diagnostics be executed on an access interface unit (AIU) line circuit (LC).	DGN:AIULC 5E15 and later
Requests that diagnostics be executed on an access interface unit (AIU) line pack (LP).	DGN:AIULP 5E15 and later
Requests that diagnostics be executed on an access interface unit (AIU) ring generator (RG).	DGN:AIURG 5E15 and later
Requests that diagnostics be executed on an access interface unit (AIU) timeslot group (TSGRP).	DGN:AIUTSGRP 5E15 and later
Inhibits hardware checks on an access interface unit (AIU).	INH:HDW-AIU 5E15 and later
Requests that an access interface unit common data and control controller (COMDAC) be removed from service.	RMV:AIUCOM 5E15 and later
Requests that an access interface unit (AIU) line circuit (LC) be removed from service.	RMV:AIULC 5E15 and later
Requests that an access interface unit (AIU) line pack (LP) be removed from service.	RMV:AIULP 5E15 and later
Requests that an access interface unit (AIU) timeslot group (TSGRP) be removed from service.	RMV:AIUPIDB 5E15 and later
Requests that an access interface unit (AIU) ring generator (RG) be removed from service.	RMV:AIURG 5E15 and later
Requests that an access interface unit common data and control controller (COMDAC) be restored to service.	RST:AIUCOM 5E15 and later
Requests that an access interface unit (AIU) line circuit (LC) be restored to service.	RST:AIULC 5E15 and later
Requests that an access interface unit (AIU) line pack (LP) be restored to service.	RST:AIULP 5E15 and later
Requests that an access interface unit (AIU) timeslot group (TSGRP) be restored to service.	RST:AIUPIDB 5E15 and later
Requests that an access interface unit (AIU) ring generator (RG) be restored to service.	RST:AIURG 5E15 and later
Requests the actions be stopped on an access interface unit common data and control controller (COMDAC).	STP:AIUCOM 5E15 and later
Requests the actions be stopped on an access interface unit (AIU) line circuit (LC).	STP:AIULC 5E15 and later
Requests the actions be stopped on an access interface unit (AIU) line pack (LP).	STP:AIULP 5E15 and later
Requests the actions be stopped on an access interface unit (AIU) timeslot group (TSGRP).	STP:AIUPIDB

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	5E15 and later
Requests the actions be stopped on an access interface unit (AIU) ring generator (RG).	STP:AIURG 5E15 and later
Requests that the current switch on the unit specified be stopped.	STP:SW 5E15 and later
Requests that the active major/active minor states of the access interface unit common data and control controller be switched (interchanged).	SW:AIUCOM 5E15 and later

2. ADMINISTRATIVE MODULE

Topic/Purpose	Message ID/ Software Release Range
Allows the logging and processing of all administrative module (AM) computer error sources.	ALW:ERRCHK 5E15 and later
Requests that the logging and processing of administrative module (AM) error interrupts attached to the unit specified in the identification field be allowed.	ALW:ERRINT 5E15 and later
Requests that the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities be allowed.	ALW:ERRSRC 5E15 and later
Initiates the off-line boot procedure.	EXC:OFLBOOT 5E15 and later
Inhibits the logging and processing of all administrative module (AM) error sources.	INH:ERRCHK 5E15 and later
Request that the logging and processing of error interrupts attached to the administrative module (AM) unit specified in the identification field be inhibited.	INH:ERRINT 5E15 and later
Inhibits the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities.	INH:ERRSRC 5E15 and later
Requests output of configuration status information for administrative module (AM) hardware units.	OP:CFGSTAT-AM-A 5E15 - 5E16(1)
Requests output of configuration status information for administrative module (AM) hardware units.	OP:CFGSTAT-AM-B 5E16(2) and later
Requests a list of all currently unavailable administrative module (AM) hardware units.	OP:UNAV 5E15 and later
Requests a list of all currently unequipped administrative module (AM) hardware units.	OP:UNEQIP 5E15 and later
To stop the offline boot (OFLBOOT) procedure.	STOP:OFLBOOT 5E15 and later
To perform a call processing side switch.	SW:OFLBOOT 5E15 and later

3. ADMINISTRATIVE SERVICES MODULE

Topic/Purpose	Message ID/ Software Release Range
Requests that the active/standby state of the administrative service module (ASM) be switched (interchanged) when high availability ASM (HA-ASM) exists in an office.	SW:ASM 5E15 and later

4. ADVANCED SERVICES PLATFORM

Topic/Purpose	Message ID/ Software Release Range
Clears an advanced services platform (ASP) 0.1 test query parameter (or set of parameters) that has been set.	CLR:ASPTQ 5E15 and later
Provides a list of all currently active administrative module (AM) hardware units.	OP:ACT 5E15 and later
Requests displaying the advanced services platform (ASP) 0.1 test query parameters associated with a specified message type.	OP:ASPTQ 5E15 and later
Provides a list of all administrative module (AM) hardware units currently in the growth maintenance state.	OP:GROW 5E15 and later

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Provides a list of all currently initializing administrative module (AM) hardware units.	OP:INIT 5E15 and later
Requests a list of all currently off-line administrative module (AM) hardware units.	OP:OFL 5E15 and later
Requests a list of all standby administrative module (AM) hardware units.	OP:STBY 5E15 and later
Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.	SET:ASPTQ-A 5E15 only
Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.	SET:ASPTQ-B 5E16(1) only
Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.	SET:ASPTQ-C 5E16(2) and later
Requests that an R0 advanced services platform (ASP) test query verifying integrity be sent to the external service control point (SCP) database.	TST:ASP 5E15 and later
Requests sending an advanced services platform (ASP) 0.1 test message to the service control point (SCP).	TST:ASPTQ 5E15 and later
Requests that the contents of files that are essential to the booting of the administrative module (AM) be verified.	VFY:FILE-A 5E15 - 5E16(1)
Requests that the contents of files that are essential to the booting of the administrative module (AM) be verified.	VFY:FILE-B 5E16(2) and later

5. AIR EXTENSION

Topic/Purpose	**Message ID/ Software Release Range**
Requests that maintenance information be collected for an *Air Extension*^{SM} wireless phone.	OP:WCPE 5E15 and later
Requests that the shared secret data (SSD) associated with an *Air Extension*^{SM} wireless subscriber be updated.	UPD:SSD 5E15 and later

6. ALARMS

Topic/Purpose	**Message ID/ Software Release Range**
Requests that alarm reporting on a scan point be allowed, according to type.	ALW:ALM-A 5E15 - 5E16(1)
Requests that alarm reporting on a scan point be allowed, according to type.	ALW:ALM-B 5E16(2) and later
Requests a change to or adds alarm labels, levels, and repeatability status for office assignable building/power or miscellaneous alarms.	CHG:ALM 5E15 and later
Requests that the alarm indicators on the display terminals be cleared (retired), the exit pilot light alarm units and the audible alarms.	CLR:ALARMS 5E15 and later
Requests that the data delivery bits for the OP:ALM-ALL input message feature be cleared, unconditionally.	CLR:OP-ALM-ALL 5E15 and later
To allow traffic and clear the alarm for the user part specified by the input originating point code (OPC)/destination point code (DPC) pair.	CLR:UPART 5E16(1) and later
Requests that alarm reporting on a scan point be inhibited, according to type.	INH:ALM 5E15 and later
Requests alarm summary of either off-normal or all alarm scan points.	OP:ALM 5E15 and later
Requests the output of the virtual path(s) (VPATHs), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state.	OP:ATMALM-A 5E15 only
Requests the output of the virtual path(s), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state.	OP:ATMALM-B 5E16(1) - 5E16(2)
Requests the output of the virtual path(s), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state.	OP:ATMALM-C 5E17(1) only
Requests the output of the virtual path(s), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm or ATM misrouted cell state.	OP:ATMALM-D 5E18(1) and later

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Requests that the alarm retire mode (ALMMDE) be set to either automatic or manual.	SET:ALMMDE 5E15 and later
Requests that the reporting of all active alarms in the office in response to the OP:ALM-ALL input message be stopped.	STP:OP-ALM-ALL 5E15 and later
Requests that the audible and visual alarm reporting mechanism be tested.	TST:ALM 5E15 and later

6.1 Fan Alarm Scan Points

Topic/Purpose	Message ID/ Software Release Range
Requests that a fan alarm be cleared.	CLR:FANALM 5E15 and later
Requests that a remote reset of the administrative module (AM) fan alarm (FANALM) distribute point be performed.	CLR:FANALM-3B 5E15 and later
Requests that exit pilot lamps (alarms) be extinguished.	CLR:LAMPS 5E15 and later

6.2 Alarm and Status Circuit

Topic/Purpose	Message ID/ Software Release Range
Requests that maintenance actions on the remote switching module (RSM), optical remote switching module (ORM), or the two-mile remote switching module (TRM) alarm and status circuit (ASC) be aborted.	ABT:ASC 5E15 and later
Requests that a multi-module remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be diagnosed to determine if it is in working order.	DGN:ASC 5E15 and later
Requests that maintenance exercises be performed on the remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC).	EX:ASC 5E15 and later
Requests that a remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be removed from service.	RMV:ASC 5E15 and later
Requests that a remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be restored to service.	RST:ASC 5E15 and later
Requests that maintenance actions on the remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be stopped.	STP:ASC 5E15 and later

7. ALTERNATE ROUTE CANCELLATION CONTROL

Topic/Purpose	Message ID/ Software Release Range
Clears one or all alternate route cancellation (ARC) controls of a given control type.	CLR:ARC 5E15 and later
Lists all alternate route cancellation (ARC) controls in the office.	OP:ARC 5E15 and later
Requests that an alternate route cancellation (ARC) control at an office be set or modified.	SET:ARC 5E15 and later

8. APPLICATION PROCESSES

Topic/Purpose	Message ID/ Software Release Range
Requests an administrative module (AM) initialization of an application process at the	INIT:AM-FPI

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specified level.	5E15 and later
Requests an administrative module (AM) single process purge (SPP) initialization of a named application process running under either operational kernel process (OKP) or switch maintenance kernel process (SMKP).	INIT:AM-SPP 5E15 and later
Requests that switching modules (SM) be reconfigured or forced by sending administrative module intervention (AMI) messages to either a single SM, to a range of SMs, or broadcast to all SMs.	ORD:CPI 5E15 and later

9. ASYNCHRONOUS TRANSFER MODE

Topic/Purpose	Message ID/ Software Release Range
Requests the user traffic counts of a protocol handler for asynchronous transfer mode (ATM) version 2 (PHA2) ATM link and all active permanent virtual circuits (PVC) on the PHA2 ATM link.	OP:ST-ATMPVC 5E18(1) and later
Requests that when a call processing (CP) node is added (grown in) to a virtual switch, or there is inter-dependency between the 5ESS\(rg software version and the ASM software version, the CP node must be evaluated for the dependency.	UPD:DSPKGDEPEND 5E16(2) and later

9.1 Asynchronous Transfer Mode Packet Pipe Link

Topic/Purpose	Message ID/ Software Release Range
Requests that the manually set automatic protection switch (APS) state of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) be cleared.	CLR:PSALNK 5E16(2) and later
Convert from a given packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) to the associated protocol handlers (PHs) for ATM (PHAs) that service the individual channels of the ATM link.	OP:CONV-PSALNK 5E16(2) and later
Requests the output of the current link status and other information of a single asynchronous transfer mode (ATM) link (PSALNK) or the output of the current status of a group of ATM links.	OP:ST-PSALNK 5E16(2) and later
Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) be set to a higher priority state.	SET:PSALNK 5E16(2) and later
Request that the active/standby states of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) channels be switched.	SW:PSALNK 5E16(2) and later

10. AUDIT PROGRAMS

Topic/Purpose	Message ID/ Software Release Range
Requests that the routine execution of one or more audits controlled by the system integrity monitor (SIM) that were previously inhibited be allowed.	ALW:AUD 5E15 and later
Requests that a communication module processor (CMP) audit be allowed to execute automatically or an audit cycle to execute routinely on one CMP.	ALW:AUD-CMP 5E15 and later
Allows a kernel process environment audit to execute automatically or allows an audit cycle in the administrative module (AM) to execute routinely.	ALW:AUD-ENV 5E15 and later
Requests that either the full or incremental static office-dependent data (SODD) audit, which is to execute automatically, be allowed.	ALW:AUD-SODD 5E15 and later
Requests that the central node control (CNC) audit be initiated.	AUD:CNC 5E15 and later
Requests that the equipment configuration database (ECD) be audited.	AUD:ECD 5E15 and later
Requests that the equipment configuration database manager (ECDMAN) audit of record ownership be run.	AUD:ECDOWN 5E15 and later
Requests that a simple existence audit of files on the disks be run.	AUD:FILES 5E15 and later
Requests that the resources of the file manager (FMGR) be audited.	AUD:FMGR

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	5E15 and later
Requests that the file system block audit be run.	AUD:FSBLK 5E15 and later
Requests that the file system compaction audit be run.	AUD:FSCMPT 5E15 and later
Requests that the file system link audit be run.	AUD:FSLINK 5E15 and later
To initiate the link status and band status audit.	AUD:LKBDST 5E15 and later
Requests that the memory manager audits be run.	AUD:MMGR 5E15 and later
Requests that the message buffer (MSGBUF) resources be audited.	AUD:MSGBUF 5E15 and later
Requests that the internal data audits be run on the recent changeable tables.	AUD:NIDATA 5E15 and later
To execute the NMDATA specific audit to monitor the integrity of network management dynamic data.	AUD:NMDATA 5E15 and later
Requests that ring node (RN) state audits be initiated.	AUD:NODEST 5E15 and later
Requests that the plant measurements system (PMS) database audit be run.	AUD:PMS 5E15 and later
Audits the directly connected trunks (DCT) extended (DCTEXT), searching for suspended process creations (including forks) and terminations.	AUD:PROAD 5E15 and later
Configure MHD0 and MHD1 to be the duplex boot disks.	CFR:DUPLEXDISKS 5E15 and later
.P Format 1 requests the clearing of the full static office-dependent data (SODD) audit's schedule.	CLR:AUD 5E15 and later
Requests that non-backed-up application recent changes be cleared from the administrative module (AM) and/or one or more switching modules (SMs) or a communication module processor (CMP) on a bootstrap (pump) of that processor.	CLR:BACKOUT 5E15 and later
Format 1 restarts a full or incremental static office-dependent data (SODD) audit that was previously executing but was stopped for some reason, provided that the conditions permit it to be restarted.	EXC:AUD-SODD 5E15 and later
Requests that control operations be performed on the remote access subsystem (REMACS) data audit, or requests the status of that subsystem.	EXC:REMACS 5E15 and later
Provides the ability to exercise operations in the stand-by ring (ring1) on demand.	EXC:RG1AUD 5E15 and later
Requests that the routine execution of one or more audits that are controlled by the system integrity monitor (SIM) be inhibited.	INH:AUD 5E15 and later
Inhibits the automatic execution of a kernel process environment (OKP or SMKP) audit or the routine execution of the cycle in the administrative module (AM).	INH:AUD-ENV 5E15 and later
Inhibits the automatic execution of an audit or the routine execution of the audit cycle in the switching module (SM) or range of SMs.	INH:AUD-SM 5E15 and later
Requests that the execution of either the full or incremental static office-dependent data (SODD) audit be inhibited.	INH:AUD-SODD 5E15 and later
Reports the status of one or more audits controlled by the system integrity monitor (SIM).	OP:AUD 5E15 and later
Requests either the generation of a detailed error report of the errors found by a previously-executed full, incremental or entity static office-dependent data (SODD) audit, a detailed summary report of errors detected by one of the forementioned audits, or just a summary of the number of errors found by one of the forementioned audits.	OP:AUD-ERRLOG 5E15 and later
Requests that one of the following be printed: the execution status of the static office-dependent data (SODD) audits; the full SODD audit's schedule; the status of the active SODD audit(s).	OP:AUD-SODD 5E15 and later
Reports the error counts of one or more audits controlled by the system integrity monitor (SIM).	OP:AUDERR 5E15 and later
Provides the ability to obtain status of a CNI ring 1 audit.	OP:RG1AUD 5E15 and later
Requests a report of the status of a specified audit, all audits, or all inhibited audits for a	OP:ST-AUD-CMP-A

particular communication module processor (CMP) or range of CMPs.	5E15 only
Requests a report of the status of a specified audit, all audits, or all inhibited audits for a particular communication module processor (CMP) or range of CMPs.	OP:ST-AUD-CMP-B 5E16(1) and later
Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.	OP:ST-AUD-ENV-A 5E15 only
Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.	OP:ST-AUD-ENV-B 5E16(1) and later
Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.	OP:ST-AUD-SM-A 5E15 only
Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.	OP:ST-AUD-SM-B 5E16(1) and later
Requests the status of the full or incremental static office-dependent data (SODD) audit.	OP:ST-AUD-SODD 5E15 and later
Requests a list of environments supporting the requested audit.	OP:ST-ENV-AUD 5E16(1) and later
Schedules the day, time, and duration for the full static office-dependent data (SODD) audit.	SCHED:AUD-SODD 5E15 and later
Requests to set SODD Audit to run full, incremental or sub audit(s) during execution.	SET:AUD 5E15 and later
Requests that a currently active audit that is controlled by the administrative module (AM) system integrity monitor (SIM) stops.	STOP:AUD 5E15 and later
Provides the ability to stop the execution of a CNI Ring 1 Audit.	STOP:RG1AUD 5E15 and later
Requests that a currently active audit that is controlled by the administrative module (AM) system integrity monitor (SIM) be stopped.	STP:AUD 5E15 and later
Stops the currently executing audit in a communication module processor (CMP).	STP:AUD-CMP 5E15 and later
Requests that the currently executing kernel process environment (OKP or SMKP) audit in the administrative module (AM) be stopped.	STP:AUD-ENV 5E15 and later
Requests that the currently executing audit be stopped in a switching module (SM) or range of SMs.	STP:AUD-SM 5E15 and later
Requests the termination of an executing static office-dependent data (SODD) audit as indicated with the parameter list.	STP:AUD-SODD 5E15 and later

11. AUTHORITY MANAGEMENT

Topic/Purpose	**Message ID/ Software Release Range**
Adds a new person identity (IDENT) with its related password (PSSWD) to the person authority (PAUTH) database.	ADD:PAUTH 5E15 and later
This input message adds a command group or profile to the person-command group (PCGRP) relation for the given person identity (IDENT).	ADD:PCGRP 5E15 and later
Adds a new profile identity (IDENT) to the profile authority database (PROFL).	ADD:PROFL 5E15 and later
Adds a terminal identity (TERM) to the terminal authority (TAUTH) database.	ADD:TAUTH 5E15 and later
This command adds a command group or profile to the terminal-command group (TCGRP) relation for a given terminal identity (TERM).	ADD:TCGRP 5E15 and later
Changes the password for a given person identity in the person authority (PAUTH) database.	CHG:PAUTH 5E15 and later
Adds or removes a command group from a profile identity in the profile authority database.	CHG:PROFL 5E15 and later
Changes a user's password from its current value to a new value.	CHG:PSSWD 5E15 and later
Deletes a person identity (IDENT) from the person authority database (PAUTH).	DEL:PAUTH 5E15 and later
This input message deletes a command group or profile from the person-command group (PCGRP) relation for a given person identity (IDENT).	DEL:PCGRP 5E15 and later
Deletes a profile identity (IDENT) from the profile (PROFL) authority database.	DEL:PROFL

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	5E15 and later
Deletes a terminal (TERM) identity from the terminal authority (TAUTH) database.	DEL:TAUTH 5E15 and later
This command deletes a command group of profile from the terminal-command group (TCGRP) relation for a given terminal (TERM) identity.	DEL:TCGRP 5E15 and later
Verifies authority settings for the originating terminal.	VFY:AUTH 5E15 and later
Format 1 verifies a person identity and the person's last login date and time.	VFY:PAUTH 5E15 and later
Verifies the person-command group (PCGRP) relation for a given person identity (IDENT).	VFY:PCGRP 5E15 and later
Verifies all profile names in the profile authority database (PROFL), or verifies the command groups associated with a given profile identity (IDENT) if the optional IDENT parameter is specified.	VFY:PROFL 5E15 and later
Verifies all terminal identities in the terminal authority (TAUTH) database.	VFY:TAUTH 5E15 and later
Verifies terminal-command group (TCGRP) relation for a given terminal (TERM) identity.	VFY:TCGRP 5E15 and later

12. AUTOMATIC BACKUP

Topic/Purpose	Message ID/ Software Release Range
Requests that previously inhibited automated system backups be allowed to execute.	ALW:AUTOBKUP 5E15 and later
Requests an automated system backup to be unscheduled.	CLR:BKUP 5E15 and later
Requests that all future automated system backup attempts be inhibited.	INH:AUTOBKUP 5E15 and later
Requests a new automated system backup to be scheduled or requests all previously scheduled backups to be rescheduled.	SCHED:BKUP 5E15 and later
Request a file to be created that specifies the options for an automated system backup.	SET:BKUP 5E15 and later
Requests that an automated system backup currently in progress be stopped.	STP:AUTOBKUP 5E15 and later

13. AUTOMATIC CALL GAPPING CONTROL

Topic/Purpose	Message ID/ Software Release Range
Requests a list of up to 64 automatic call gapping (ACG) controls for the specified application, starting at the given control identifier.	OP:ACG 5E15 and later

14. AUTOMATIC CUSTOMER STATION REARRANGEMENT

Topic/Purpose	Message ID/ Software Release Range
Requests that automatic customer station rearrangement (ACSR) requests be added or deleted from the ACSR queue.	ALW:ACSR 5E15 and later
Requests that one or all automatic customer station rearrangement (ACSR) requests be deleted from the ACSR queue.	DEL:ACSR 5E15 and later
Requests that automatic customer station rearrangement (ACSR) recent change log and error data files be printed.	DUMP:ACSR 5E15 and later
Requests that automatic customer station rearrangement (ACSR) requests not be added nor deleted from the ACSR queue.	INH:ACSR 5E15 and later
Requests that the status of one or all automatic customer station rearrangement (ACSR) requests in the ACSR queue be printed.	OP:ACSR 5E15 and later
Requests that the status of automatic customer station rearrangement (ACSR) enqueuing and	OP:STAT

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dequeueing be printed.	5E15 and later

15. AUTOMATIC LINE EVALUATION

Topic/Purpose	Message ID/ Software Release Range
Requests that the operation of automatic line evaluation (ALE) be allowed for the specified option.	ALW:ALE-A 5E15 only
Requests that the operation of automatic line evaluation (ALE) be allowed for the specified option.	ALW:ALE-B 5E16(1) and later
Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels.	EXC:ALE-A 5E15 only
Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels.	EXC:ALE-B 5E16(1) and later
Requests that a routine exercise (REX) and/or automatic line insulation test (ALIT) schedule be generated based on the equipment present.	EXC:SCHED 5E15 and later
Requests inhibition of the options utilized for the operation of the automatic line evaluation (ALE) system and protocol error record (PER) reporting and generation.	INH:ALE-A 5E15 only
Requests inhibition of the options utilized for the operation of the automatic line evaluation (ALE) system and protocol error record (PER) reporting and generation.	INH:ALE-B 5E16(1) and later
Requests the status of automatic line evaluation (ALE) system control parameters and resource usage.	OP:ALE-A 5E15 only
Requests the status of automatic line evaluation (ALE) system control parameters and resource usage.	OP:ALE-B 5E16(1) and later
Requests that the current automatic line evaluation (ALE) session be stopped.	STP:ALE 5E15 and later

16. AUTOMATIC LINE INSULATION TEST

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the automatic line insulation test (ALIT) circuit at the specified location be aborted.	ABT:ALIT 5E15 and later
Requests that an automatic line insulation test (ALIT) be diagnosed to determine whether it is in satisfactory working order.	DGN:ALIT 5E15 and later
Requests interactive diagnostics (exercises) of the automatic line insulation test (ALIT) unit.	EX:ALIT 5E15 and later
Requests that an automatic line insulation test (ALIT) circuit in a metallic service unit (MSU) be removed from service.	RMV:ALIT 5E15 and later
Requests that an automatic line insulation test (ALIT) board in a metallic service unit (MSU) be conditionally or unconditionally restored to service.	RST:ALIT 5E15 and later
Requests that actions on the automatic line insulation test (ALIT) circuit at the specified location be stopped.	STP:ALIT 5E15 and later

17. AUTOMATIC MAINTENANCE LIMIT

Topic/Purpose	Message ID/ Software Release Range
Requests that the number of out-of-service (OOS) trunks be printed in relation to the automatic maintenance limit (AML) for a specified trunk group or a list of all trunk groups whose outages have reached their AML.	OP:AML 5E15 and later

18. AUTOMATIC MESSAGE ACCOUNTING

Topic/Purpose	Message ID/ Software Release

	Range
Requests that the tape writing process be aborted.	ABT:AMATAPE 5E15 and later
Requests that automatic message accounting (AMA) automatic tape writing be allowed.	ALW:AMA-AUTOST 5E15 and later
Requests that automatic message accounting (AMA) teleprocessing sessions or tape writing sessions be allowed.	ALW:AMA-SESSION 5E15 and later
Requests that the printing of data related to an automatic message accounting irregularity (AMAIRR) be allowed when and if such an irregularity occurs.	ALW:AMAIRR 5E15 and later
Requests that the printing of data related to a lost automatic message accounting (AMALOST) record be allowed when and if such a loss occurs.	ALW:AMALOST 5E15 and later
Format 1 requests that the printing of an automatic message accounting (AMA) record be allowed on the ROP for a specific originating and/or terminating directory number (DN).	ALW:AMATRC 5E15 and later
Requests that centralized automatic message accounting (CAMA) operator number identification (ONI) processing be allowed.	ALW:CAMAONI 5E15 and later
Requests that the automatic message accounting (AMA) partitions on the offline moving head disk (MHD) be cleared during retrofits, disk growths, and updates, to ensure that all billing data recorded on the offline MHD is current.	CLR:AMA-MAPS 5E15 and later
Requests that the automatic message accounting (AMA) configuration files be converted from the previous software release to the new software release during retrofits, disk growths, or updates, to accommodate the new disk layouts.	CNVT:AMA-CONFIG 5E15 and later
Requests that primary or secondary automatic message accounting (AMA) data records be copied onto tape.	CPY:AMATAPE 5E15 and later
Requests that automatic message accounting (AMA) automatic tape writing sessions be inhibited.	INH:AMA-AUTOST 5E15 and later
Requests that all automatic message accounting (AMA) sessions be inhibited or the writing of AMA tapes be prevented.	INH:AMA-SESSION 5E15 and later
Inhibits the printing of data related to an automatic message accounting irregularity (AMAIRR).	INH:AMAIRR 5E15 and later
Requests that the printing of data related to lost automatic message accounting (AMALOST) records be stopped.	INH:AMALOST 5E15 and later
Format 1 requests that the printing of automatic message accounting (AMA) records be inhibited for a matching active trace directory number (DN) (that is, DN and PS option are equal).	INH:AMATRC 5E15 and later
Inhibits centralized automatic message accounting (CAMA) operator number identification (ONI) processing.	INH:CAMAONI 5E15 and later
Requests output of the automatic message accounting (AMA) office stream configuration.	OP:AMA 5E15 and later
Requests the current status of the automatic message accounting (AMA) configuration files.	OP:AMA-CONFIG 5E15 and later
Requests that the current state of the automatic message accounting (AMA) control file be obtained.	OP:AMA-CONTROLF 5E15 and later
Requests current automatic message accounting (AMA) disk space occupancy data.	OP:AMA-DISK 5E15 and later
Requests that the automatic message accounting (AMA) maintenance file be obtained.	OP:AMA-MAINT 5E15 and later
Requests the contents of the disk maps for all partitions and the contents of the global maps for each stream.	OP:AMA-MAPS 5E15 and later
Indicate which disk blocks correspond to a given block sequence number, and the automatic message accounting (AMA) partitions on which they are located.	OP:AMA-SEQ 5E15 and later
Requests a report of the current or most recent automatic message accounting (AMA) tape or teleprocessing session.	OP:AMA-SESSION 5E15 and later
Requests the printing of the automatic message accounting (AMA) record status in the administrative module (AM) buffer.	OP:AMA-STATUS 5E15 and later
Requests automatic message accounting (AMA) teleprocessing and tape summary data.	OP:AMA-SUMMARY 5E15 and later
Requests automatic message accounting (AMA) teleprocessing summary data that has been accumulated today.	OP:AMA-TELE 5E15 and later
Requests the current status of the automatic message accounting irregularity (AMAIRR)	OP:AMAIRR

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record reporting feature.	5E15 and later
Requests the current status of the automatic message accounting lost (AMALOST) record reporting feature.	OP:AMALOST 5E15 and later
Requests the current status of the automatic message accounting (AMA) record reporting feature AMATRC.	OP:AMATRC 5E15 and later
Requests that an automatic message accounting (AMA) partition be equipped or unequipped for either the ST1 or ST2 data stream.	SET:AMA-CONFIG 5E15 and later
Requests that one or two of the automatic message accounting (AMA) control file parameters be set.	SET:AMA-CONTROL 5E15 and later
Requests that the automatic message accounting (AMA) office stream configuration be set.	SET:AMA-STREAM 5E15 and later
Requests that the tape writing process be stopped.	STP:AMATAPE 5E15 and later
Requests that a particular tape drive be set to the automatic message accounting (AMA) function and that the tape on that tape drive be verified.	VFY:AMATAPE 5E15 and later
Requests that billing data be collected from the switching modules (SMs) and the billing data in the administrative module be written to disk prior to generic retrofit.	WRT:AMADATA 5E15 and later

19. AUTOMATIC PROGRESSION TESTING

Topic/Purpose	Message ID/ Software Release Range
Displays the status of an automatic (trunk) progression test (APT) session.	OP:APT 5E15 and later
Schedules the time in which trunk automatic progression testing (APT) is to be run for a given 24-hour period.	SCHED:APT 5E15 and later
Requests that a manually or automatically scheduled automatic progression testing (APT) session that is currently executing be stopped.	STP:APT 5E15 and later

20. AUTOMATIC PROTECTION SWITCH

Topic/Purpose	Message ID/ Software Release Range
Requests that the manually set automatic protection switch (APS) state of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) be cleared.	CLR:PSALNK 5E16(2) and later
Requests automatic protection switching (APS) status of optical carrier - level 3 (OC3) or optical carrier - level 3 concatenated (OC3C) circuits for optical interface units (OIUs) in a switching module (SM) or a range of SMs.	OP:APSSTAT 5E16(1) and later
Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) be set to a higher priority state.	SET:PSALNK 5E16(2) and later

21. AUTOMATIC TRUNK TEST SCHEDULER

Topic/Purpose	Message ID/ Software Release Range
Dumps the entries in the automatic trunk test scheduler (ATTS) schedule database which relate to a specified ATTS test schedule.	DUMP:ATDTA-A 5E15 - 5E17(1)
Dumps the entries in the automatic trunk test scheduler (ATTS) schedule database which relate to a specified ATTS test schedule.	DUMP:ATDTA-B 5E18(1) and later
Retrieves scheduled trunk test data from automatic trunk test scheduler (ATTS) log files.	DUMP:ATLOG 5E15 and later
Dumps the entries in the automatic trunk test scheduler (ATTS) parameters database which relate to a specified ATTS test schedule.	DUMP:ATPRM 5E15 and later
Requests a report of the status of the specified automatic trunk test scheduler (ATTS) test schedule.	OP:ATTS 5E15 and later
Requests that records of the last successful office backup activities using GENBKUP (the automated office backup procedure) be printed.	OP:GENBKUP-LAST 5E15 and later
Requests that the automatic generic backup process be started.	RCV:M-GENBKUP

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	5E15 and later
Places a specified automatic trunk test scheduler (ATTS) test schedule in an operational state to enable the automatic execution of test sessions defined in that schedule.	ST:ATTS 5E15 and later
Disables the automatic execution of test sessions defined in a specified automatic trunk test scheduler (ATTS) test schedule.	STP:ATTS 5E15 and later

22. *AUTOPLEX®*

Topic/Purpose	Message ID/ Software Release Range
Requests translation information for an *AUTOPLEX®* mobile phone service (AMPS) facility, from AMPS facility identifier to its external facility circuit identifier and vice-versa.	OP:AFAC 5E15 and later
Requests that a billed number screening (BNS) query be sent to the billing validation application (BVA), the line information database (LIDB), or the LIDB alternate destination (LALT) to verify its operation.	TST:BNS 5E15 and later
Requests that a calling card (CCRD) query be sent using the billing validation application (BVA) interface, the line information database (LIDB) transaction capability application part (TCAP) interface, or to the LIDB alternate destination (LALT) using the LIDB TCAP interface to verify its operation.	TST:CCRD 5E15 and later

23. BACKHAUL

Topic/Purpose	Message ID/ Software Release Range
Requests the backhaul association (BHA) related information of a specified backhaul protocol handler (BPH) or summary BHA information of all the BPHs in a packet switch unit (PSU).	OP:BHA 5E19(1) and later
Requests that the currently printing backhaul association (BHA) related information list be stopped.	STP:BHA 5E19(1) and later

24. BACKUP

Topic/Purpose	Message ID/ Software Release Range
Requests the automated system backup schedule and/or content of backup option files to be displayed.	OP:BKUP 5E15 and later

25. BEARER INDEPENDENT CALL CONTROL

Topic/Purpose	Message ID/ Software Release Range
Allows automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query.	ALW:BICCCQ-A 5E15 only
Allows automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query.	ALW:BICCCQ-B 5E15 and later
The purpose of this command is to reset environment variables because of an abnormal termination of the EXC:BICCBMOVE input message.	CLR:BICCBMOVE 5E16(1) and later
Execute a BICC CIC block reallocation process.	EXC:BICCBMOVE 5E16(1) and later
Executes a bearer independent call control (BICC) call instance code (CIC) query (BQ) request.	EXC:BICCCQ 5E15 and later
Inhibits automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query.	INH:BICCCQ 5E15 and later
Requests the output of bearer independant call control (BICC) data matching specific characteristics.	OP:BICC 5E15 and later
Requests the output of bearer-independent call control (BICC) call instance code (CIC) block for specific information.	OP:BICCBLK 5E16(1) and later
Requests the status of a Static Call Instance Code Allocation process.	OP:BICCBMOVE

	5E16(1) and later
Determines whether the common channel signaling (CCS) automatic bearer independent call control (BICC) call instance code (CIC) query for CCS System 7 (CCS7) trunks is inhibited or allowed for the entire office, and the BICC CIC query start time.	OP:BICCCQ 5E15 and later
Requests the removal of a single bearer-independent call control (BICC) block from service and the placing of all the call instance codes (CICs) of the specified block into the circuit administration (CADN) out-of-service (OOS) status.	RMV:BICCCADN 5E16(1) and later
Requests the restoration of a single bearer-independent call control (BICC) block to service and the removal of all the call instance codes (CICs) of the specified block from the circuit administration (CADN) out-of-service (OOS) list and their restoration to the in-service (IS) state.	RST:BICCCADN 5E16(1) and later
Allows the user to send on demand a block or unblock message for bearer independent call control (BICC).	SND:BICCMSG 5E15 and later
Requests that the processing and output of the bearer independant call control (BICC) data request or task, OP:BICC, be stopped.	STP:BICC 5E15 and later
This request will stop further execution of EXC:BICCBMOVE.	STP:BICCBMOVE 5E16(1) and later
Requests that the active bearer independent call control (BICC) call instance code (CIC) query be stopped.	STP:BICCCQ 5E15 and later

26. BILLING

Topic/Purpose	Message ID/ Software Release Range
Stops the reporting, begun with an ALW:BCI input message, of line unit concentrator blockages in A- and B-links for originating or terminating calls.	STP:BCI 5E15 and later

27. BOOT DISK

Topic/Purpose	Message ID/ Software Release Range
Provides a list of all available alternate boot disk units on the switch.	OP:ABD 5E15 and later

28. BOOTSTRAP

Topic/Purpose	Message ID/ Software Release Range
Aborts actions on the bootstrapper board (BTSR) at the specified location.	ABT:BTSR 5E15 and later
Requests that the bootstrapper board (BTSR) be diagnosed to determine whether it is in satisfactory working order.	DGN:BTSR 5E15 and later
Performs various exercises on the bootstrapper board (BTSR).	EX:BTSR 5E15 and later
Requests that the bootstrapper board (BTSR) be removed from service.	RMV:BTSR 5E15 and later
Requests that the bootstrapper (BTSR) boards be restored to the active state.	RST:BTSR 5E15 and later
Requests that the actions on the bootstrapper board (BTSR) at the specified location be stopped.	STP:BTSR 5E15 and later
Invokes the bootstrapper board (BTSR) resident diagnostic.	TST:BTSR 5E15 and later

29. BREAKPOINTS

Topic/Purpose	Message ID/ Software Release Range

Requests that all currently defined administrative module (AM) generic access package (GRASP) breakpoints be enabled so that the associated actions are executed when the breakpoint conditions occur.	ALW:UTIL 5E15 and later
Requests that a specific administrative module (AM) generic access package (GRASP) breakpoint be enabled so that the associated actions are executed when the breakpoint condition occurs.	ALW:UTILFLAG 5E15 and later
Removes all currently defined administrative module (AM) generic access package (GRASP) breakpoints; clears definitions.	CLR:UTIL 5E15 and later
Removes the specified administrative module (AM) generic access package (GRASP) breakpoint and clears the definition.	CLR:UTILFLAG 5E15 and later
Disables (but leaves defined) all administrative module (AM) generic access package (GRASP) breakpoints.	INH:UTIL 5E15 and later
Disables (but leaves defined) a specific central processor (CP) generic access package (GRASP) breakpoint.	INH:UTILFLAG 5E15 and later
Requests lists of currently defined central processor (CP) or administrative module (AM) generic access package (GRASP) breakpoints, their status and trace status.	OP:UTIL 5E15 and later

30. BREVITY CONTROL

Topic/Purpose	Message ID/ Software Release Range
Allows originating (ORIG) or terminating (TERM) blocked call indication (BCI) reporting when a path is not available through both the A- and B-links of a line unit concentrator.	ALW:BCI 5E15 and later
Requests that the effect of the INH:BREVC input message be canceled, and allows automatic brevity control to be reapplied.	ALW:BREVC 5E15 and later
Requests that brevity control be activated on messages with CRITICAL, MAJOR, MANUAL and/or MINOR handling priorities.	CHG:MSGCNTL 5E15 and later
Requests to clear all brevity control message discard (MGDSC) counts and throttling message discard counts for administrative module (AM) operational kernel process, a communication module processor (CMP), or a switching module (SM).	CLR:MGDSC 5E15 and later
Requests that automatic output message brevity control (BREVC) by output message class (MSGCLS) or processor be inhibited.	INH:BREVC 5E15 and later
Requests the output of the current output message brevity control (BREVC) status of one or all message class(es) (MSGCLS).	OP:BREVC 5E15 and later
Requests total number of messages that have been discarded (MGDSC) due to brevity control and/or message queue overflow from administrative module (AM) operational kernel process, communication module processor (CMP), or a switching module (SM).	OP:MGDSC 5E15 and later

31. BROADCAST WARNING MESSAGE

Topic/Purpose	Message ID/ Software Release Range
Requests that the segment name of acknowledgement database (ACKDB) be invalidated so that the next invocation of either the shell or display administration process (DAP) reinitializes the segment name using the ACKDB installed in /cft/she/ackdb.	CLR:ACKDB 5E15 and later
Requests the generic text version and software update level by file system partition.	OP:VERSION 5E15 and later
Requests that an official software update be blocked or inhibited from being backed out.	UPD:BLOCK-A 5E15 - 5E17(1)
Requests that an official software update be blocked or inhibited from being backed out.	UPD:BLOCK-B 5E18(1) and later
Requests update of the text version and/or software update level of the file system partitions.	UPD:VERSION-A 5E15 - 5E17(1)
Requests update of the text version and/or software update level of the file system partitions.	UPD:VERSION-B 5E18(1) and later

31.1 Program Update Page

Topic/Purpose	Message ID/ Software Release Range
Requests that the software update installation page (BWM installation) or program update (PU) maintenance page be cleared.	CLR:PUPAGE 5E15 and later
Requests that the software update installation page (BWM installation) or program update maintenance page be entered.	SET:PUPAGE 5E15 and later

32. BUSINESS AND RESIDENCE CUSTOM SERVICES

Topic/Purpose	Message ID/ Software Release Range
Allows the user to run the business and residential custom services (BRCS) feature usage audit and remove unused BRCS constructed features from the switch.	EXC:BRCS 5E15 and later
To generate the information about the business and residential customer services (BRCS) feature audit progress.	OP:BRCS-STATUS 5E15 and later
Requests the business and residential custom services (BRCS) feature audit to be stopped.	STP:BRCS 5E15 and later

33. CALL

Topic/Purpose	Message ID/ Software Release Range
Requests the status of the blocked call indication (BCI) reporting feature.	OP:BCI 5E15 and later

33.1 Call Monitor

Topic/Purpose	Message ID/ Software Release Range
Requests that the call monitor be allowed to start the cycle of making test calls and performing call completion analysis.	ALW:CALLMON 5E15 and later
Requests that the verbose mode of the call monitor be turned off.	CLR:CALLMON 5E15 and later
Requests that the call monitor be inhibited from making test calls and performing call completion analysis.	INH:CALLMON 5E15 and later
Requests that the OP:CALLMON output message be generated.	OP:CALLMON 5E15 and later
Requests that the call monitor alarm indicator be retired.	RTR:CALLMON 5E15 and later
Requests that the verbose mode of the call monitor be turned on.	SET:CALLMON 5E15 and later

33.2 Call Trace

Topic/Purpose	Message ID/ Software Release Range
Requests that tracing be allowed to take place according to the previously input trace parameter settings.	ALW:TRACE 5E15 and later
Requests that the tracing mechanism be inhibited.	INH:TRACE 5E15 and later
Requests a listing of the status of tracing and the settings of the trace detail flags for the various subsystems.	OP:TRACE 5E15 and later
Requests the printing of all data collected for a traced call.	OP:TRC 5E15 and later
Requests that the user be allowed to change the contents of the system trace control block, and therefore to change the operational characteristics of trace.	SET:TRACE 5E15 and later
Requests that a directory number (DN) be added to or deleted from the calling line	TRC:CLID

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identification (CLID) list.	5E15 and later
Requests an in-progress call trace (IPCT) by using either the directory number (DN), the multi-line hunt group (MLHG), and member number, the trunk group and member number (TKGMN), the process ID (PID), or the origination point code, destination point code, and raw call instance code (OPCDPC) of the party to be traced.	TRC:IPCT 5E15 and later
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-A 5E15 - 5E16(1)
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-B 5E16(2) only
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-C 5E17(1) only
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-D 5E18(1) - 5E19(1)
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-E 5E20(1) and later
Requests electronic loop segregation (ELS) to be run on the specified line or hardware group of lines.	TST:LINE-ELS 5E15 and later

33.3 Reorder

Topic/Purpose	Message ID/ Software Release Range
Requests that additional information on calls that are routed to reorder be collected for a switching module (SM) or a range of SMs, and the information be reported on the ROP after 15 minutes have elapsed or information for the first 30 reorder events has been collected, whichever occurs first.	ALW:REORD-SM 5E15 and later
Requests that the collection of additional information for calls routed to reorder be terminated.	INH:REORD 5E15 and later

33.4 Switch Cutoff

Topic/Purpose	Message ID/ Software Release Range
Requests that information related to switch cutoff calls be allowed, either with or without an accompanying hardware call trace.	ALW:SCORPT 5E15 and later
Requests that the reporting of information related to switch cutoff calls be inhibited.	INH:SCORPT 5E15 and later

33.5 Transient Calls Lost

Topic/Purpose	Message ID/ Software Release Range
Requests that the reporting of information be allowed related to transient calls lost either with or without an accompanying hardware call trace.	ALW:TCLRPT 5E15 and later
Inhibits the reporting of information related to transient calls lost.	INH:TCLRPT 5E15 and later

34. CAMPED-ON UNITS

Topic/Purpose	Message ID/ Software Release Range
Requests a list of the trunks, lines, data links, and Operator Services Position System Ports (OSPSPORTs) that are currently camped on due to a manual request to remove or restore that trunk, line, data link, or OSPSPORT (RMV:TRK, RST:TRK, RMV:LINE, RST:LINE, RMV:DATALINK, RST:DATALINK, RMV:OSPSPORT, RST:OSPSPORT).	OP:CAMPON-A 5E15 only
Requests a list of the trunks, lines, data links, and Operator Services Position System Ports (OSPSPORTs) that are currently camped on due to a manual request to remove or restore	OP:CAMPON-B 5E16(1) and later

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that trunk, line, data link, or OSPSPORT (RMV:TRK, RST:TRK, RMV:LINE, RST:LINE, RMV:DATALINK, RST:DATALINK, RMV:OSPSPORT, RST:OSPSPORT).	
Requests that all camp-on activity on a trunk, line, data link, or operator services position system port (OSPSPORT) caused by a RMV:TRK, RMV:LINE, RMV:DATALINK, RMV:OSPSPORT, RST:TRK, RST:LINE, RST:DATALINK, or RST:OSPSPORT input message be stopped.	STP:CAMPON-A 5E15 only
Requests that all camp-on activity on a trunk, line, data link, or operator services position system port (OSPSPORT) caused by a RMV:TRK, RMV:LINE, RMV:DATALINK, RMV:OSPSPORT, RST:TRK, RST:LINE, RST:DATALINK, or RST:OSPSPORT input message be stopped.	STP:CAMPON-B 5E16(1) and later

35. CARRIER GROUP ALARM

Topic/Purpose	Message ID/ Software Release Range
Requests clearance of a network management (NM) call gapping (CGAP) code control restricting traffic by issuing a destination code, an access prefix, or both.	CLR:CGAP 5E15 and later
Requests that the active carrier group alarms from integrated carrier facilities terminating on digital facility interfaces (DFIs), integrated digital carrier units (IDCUs), remote integrated services line units (RISLUs), non-integrated carrier facilities monitored by metallic service unit (MSU) scan points, and digital networking unit-synchronous optical network (SONET)(DNU-S) be printed.	OP:CGA-A 5E15 only
Requests that the active carrier group alarms be printed for integrated carrier facilities terminating on digital facility interfaces (DFIs), digital networking unit-synchronous optical network (SONET)(DNU-S), integrated digital carrier units (IDCUs), optical interface unit (OIU), remote integrated services line units (RISLUs), *SLC®* 96 DFI facility interfaces (SDFIs), and non-integrated carrier facilities monitored by metallic service unit (MSU) scan points.	OP:CGA-B 5E16(1) only
Requests that the active carrier group alarms be printed for integrated carrier facilities terminating on digital facility interfaces (DFIs), digital networking unit-synchronous optical network (SONET)(DNU-S), integrated digital carrier units (IDCUs), optical interface unit (OIU), remote integrated services line units (RISLUs), *SLC®* 96 DFI facility interfaces (SDFIs), and non-integrated carrier facilities monitored by metallic service unit (MSU) scan points.	OP:CGA-C 5E16(2) and later
Requests that all call gapping (CGAP) code controls in the office be listed.	OP:CGAP 5E15 and later
Requests that a call gapping (CGAP) code control be set to restrict traffic.	SET:CGAP 5E15 and later

36. CENTRALIZED TRUNK TESTING UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests that the position busy (PB) indicator be cleared at certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) assigned to receive incoming 101 test line calls.	CLR:PB 5E15 and later
Requests the display of the position busy (PB) and not position busy (NPB) status of each of the trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test calls.	OP:PB 5E15 and later
Requests that the position busy (PB) indicator of certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test line calls be set.	SET:PB 5E15 and later

37. CHECKSUM

Topic/Purpose	Message ID/ Software Release Range

Requests a 16-bit checksum for a specified file, and prints the number of blocks in the file.	OP:ST-SUM 5E15 and later

38. CLOCKS

Topic/Purpose	Message ID/ Software Release Range
Reports the current date and time.	OP:CLK 5E15 and later
Sets the system clock to the specified data and time.	SET:CLK 5E15 and later
Requests that the system clock be set to the specified date and time, or that the system time be adjusted by a small amount.	SET:CLK-5 5E15 and later

39. COMMAND HISTORY

Topic/Purpose	Message ID/ Software Release Range
Allows history recording for the terminal upon which it is entered.	ALW:HIST 5E15 and later
Clears out the command history buffer.	CLR:HIST 5E15 and later
Requests that the previous input message entered at this terminal be re-executed.	EXC:PREV 5E15 and later
Inhibits history recording for the terminal upon which it is entered.	INH:HIST 5E15 and later

40. COMMON CHANNEL SIGNALING

Topic/Purpose	Message ID/ Software Release Range
Requests the allow for the periodic signaling link test (PSLT).	ALW:CCS-PSLT 5E15 and later
Allows automatic periodic execution of the common channel signaling (CCS) office-wide circuit query.	ALW:CCSCQ 5E15 and later
Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs).	TST:GSMNET 5E15 and later

41. COMMON LINK NORMALIZATION

Topic/Purpose	Message ID/ Software Release Range
Requests that the communication link normalization (CLNORM) process be allowed.	ALW:CLNORM 5E15 and later
Request that the communication link normalization (CLNORM) process be inhibited.	INH:CLNORM 5E15 and later
Requests that the communication link normalization (CLNORM) process be initiated.	INIT:CLNORM 5E15 and later

42. COMMON NETWORK INTERFACE

Topic/Purpose	Message ID/ Software Release Range
Requests an allow of all break points in the specified common network interface (CNI) node.	ALW:RUTIL 5E15 and later
Requests an allow of the specified break point in the specified common network interface (CNI) ring node.	ALW:RUTILFLAG 5E15 and later

Requests that the common network interface (CNI) ring be configured to include or exclude ring node(s) from the active ring segment, or if the ring is down, to initialize it.	CFR:RING 5E15 and later
Requests a change in the common network interface (CNI) incore view of the CNI generic identification.	CHG:GEN 5E15 and later
Requests that the SCCP routing verification test (SRVT) delay parameter, which is used in the calculation of the T2 timer, be changed or displayed.	CHG:SRVT 5E15 and later
Removes (clears) the common network interface (CNI) system from min-mode.	CLR:MINMODE-CNI 5E15 and later
Clears all breakpoints in the specified common network interface (CNI) ring node.	CLR:RUTIL 5E15 and later
Clears a specific breakpoint in the specified common network interface (CNI) ring node.	CLR:RUTILFLAG 5E15 and later
Requests that the specified link nodes (LN) be diagnosed.	DGN:LN 5E15 and later
Requests a dump of the memory contents of the specified address at the given common network interface (CNI) ring node.	DUMP:RUTIL 5E15 and later
Requests the exercise of a link node (LN) in an interactive diagnostic mode.	EX:LN 5E15 and later
Requests that control operations be performed on the remote access subsystem (REMACS) data audit, or requests the status of that subsystem.	EXC:REMACS 5E15 and later
Requests that the signaling connection control port (SCCP) routing verification test (SRVT) be initiated.	EXC:SRVT 5E15 and later
Requests forced removal of the specified node from service, regardless of the state of the link, mate, or other nodes.	FRMV:LN 5E15 and later
Requests the status or changes the value of the report inhibit flag.	INH:REPORT 5E15 and later
Requests that the link removal inhibit flag be administered and displayed.	INH:RMV 5E15 and later
Requests an inhibit of all the break points in the specified common network interface (CNI) node.	INH:RUTIL 5E15 and later
Requests an inhibit of the specified break point in the specified common network interface (CNI) ring node.	INH:RUTILFLAG 5E15 and later
Requests a common network interface (CNI) initialization at a specified level.	INIT:CNI 5E15 and later
Requests forced removal from service and restart of the specified node, regardless of the state of the link and other nodes.	INIT:LN 5E15 and later
Initiates the updating of the software of all SS7 nodes or a single SS7 node.	LNUPD:LN 5E15 and later
Requests a load of the contents of the specified address at the given common network interface (CNI) ring node with the given data.	LOAD:RUTIL 5E15 and later
Requests the output of the current usage of an Operator Position System (OSPS) External Information System (EIS) data link or data link group.	OP:DATALINK 5E15 and later
Requests that a snapshot of certain key link node (link interface and node processor) status and data information be output.	OP:LNSTAT 5E15 and later
Generates a printout of the status for the last LNUPD:LN input message request.	OP:LNUPD 5E15 and later
Requests status information (Format 1) or generic information (Format 2) about a particular node, a group of nodes, or all nodes on a particular group.	OP:RING 5E15 and later
Requests an output of the status of all the break points in the specified node.	OP:RUTIL 5E15 and later
Requests an output of the status of the specified break point in the specified common network interface (CNI) ring node.	OP:RUTILFLAG 5E15 and later
Requests that the common network interface database consolidator (CNIDBOC) be run.	RCV:M-CNIDBOC 5E15 and later
Requests that the common network interface (CNI) growth script be executed.	RCV:M-CNIGROWTH 5E15 and later
Requests that the specified link node (LN) be removed from service.	RMV:LN 5E15 and later
Requests that the specified link node (LN) be restored to service either conditionally or	RST:LN

unconditionally.	5E15 and later
Terminates or interrupts the updating of the software of all SS7 nodes before the update procedure has been completed.	STOP:LNUPD 5E15 and later
Requests the Operating System for Distributed Switching (OSDS) resource monitoring utility to stop collecting and reporting usage of OSDS message, process, stack, and timer control blocks.	STP:PERF 5E15 and later
Requests that the mate network clock node be switched to the master network clock node.	SW:CLOCK 5E15 and later
Requests a set of the given break point at the specified common network interface (CNI) ring node with the action-list provided.	WHEN:RUTIL 5E15 and later

42.1 Ring Peripheral Controller Node

Topic/Purpose	Message ID/ Software Release Range
Requests diagnostics of the specified ring peripheral controller node (RPCN).	DGN:RPCN 5E15 and later
Exercises a ring peripheral controller node (RPCN) in an interactive diagnostic mode.	EX:RPCN 5E15 and later
Requests that the specified ring peripheral controller node (RPCN) be removed from service.	RMV:RPCN 5E15 and later
Requests that the specified ring peripheral controller node (RPCN) be restored to service.	RST:RPCN 5E15 and later

43. COMMON OBJECT FILE FORMAT

Topic/Purpose	Message ID/ Software Release Range
Requests that Symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.	DUMP:UT-SYMID-A 5E15 only
Requests that symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.	DUMP:UT-SYMID-B 5E16(1) and later

44. COMMUNICATIONS MODULE

Topic/Purpose	Message ID/ Software Release Range
Allows hardware error checks to be performed on all communication module (CM) units.	ALW:HDW-CM 5E15 and later
Requests that the communication module (CM) be re-synchronized with (unisolated from) the administrative module (AM).	CLR:ISOL-CM 5E15 and later
Inhibits all hardware error checks on all communication module (CM) units.	INH:HDW-CM 5E15 and later
This message is used to reinitialize the CM without affecting the administrative module (AM).	INIT:CM 5E15 and later
Requests a printout of the configuration status of the specified communications module (CM) unit.	OP:CFGSTAT-CM-A 5E15 - 5E16(1)
Requests a printout of the configuration status of the specified communications module (CM) unit.	OP:CFGSTAT-CM-B 5E16(2) and later
Requests a list of all off-normal circuits in communication modules (CM).	OP:OFFNORM-CM 5E15 and later
Requests that the communication module (CM) be isolated from the administrative module (AM).	SET:ISOL-CM 5E15 and later

45. COMMUNICATION MODULE PROCESSOR

Topic/Purpose	Message ID/ Software Release

	Range
Requests that actions on a communication module processor (CMP) be aborted.	ABT:CMP 5E15 and later
Requests that a communication module processor (CMP) audit be allowed to execute automatically or an audit cycle to execute routinely on one CMP.	ALW:AUD-CMP 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified communication module processor (CMP).	ALW:HDW-CMP 5E15 and later
Requests that generic utility WHEN breakpoint clauses in the communication module processors (CMP) be allowed or enabled.	ALW:UT-CMP 5E15 and later
Requests a communication module processor (CMP) audit to be run in one CMP.	AUD:CMP 5E15 and later
Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the communication module processor (CMP) be removed.	CLR:UT-CMP 5E15 and later
Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the communications module processor (CMP), and optionally perform specific operations.	COPY:UT-CMP 5E15 and later
Requests diagnosis of a communication module processor (CMP) to determine whether it is in satisfactory working order.	DGN:CMP 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.	DUMP:UT-CMP-A 5E15 only
Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.	DUMP:UT-CMP-B 5E16(1) and later
Requests that the contents of one or more sequential memory locations in the specified communication module processor message handler (CMPMSG) be dumped.	DUMP:UT-CMPMSG 5E15 and later
Requests that the conditional ELSE input message used with the IF input message perform any communications module processor (CMP) generic utility input messages following it, provided the IF input message comparison is not true.	ELSE:UT-CMP 5E15 and later
Requests that a series of communication module processor (CMP) generic utility input messages be ended.	END:UT-CMP 5E15 and later
Requests interactive diagnosis of a communication module processor (CMP).	EX:CMP 5E15 and later
Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.	EXC:UT-CMP 5E15 and later
Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.	EXC:UT-CMPMSG 5E15 and later
Requests that a constant or variable in a communication module processor's (CMP) memory be compared against another constant or variable in the CMP memory.	IF:UT-CMP 5E15 and later
Signifies the end of an IF-ELSE statement in the communication module processor (CMP) and must be used in combination with the IF:UT-CMP input message.	IF:UT-CMP-ENDIF 5E15 and later
Requests that the automatic execution of an audit or the routine execution of the audit cycle be inhibited in one communication module processor (CMP).	INH:AUD-CMP 5E15 and later
Requests that the hardware checks on the specified communication module processor (CMP) be inhibited.	INH:HDW-CMP 5E15 and later
Requests that a specific generic utility WHEN clause in the communications module processor (CMP), or all such active clauses, be inhibited.	INH:UT-CMP 5E15 and later
Requests that the selected communication module processors (CMPs) be initialized at the specified level.	INIT:CMP 5E15 and later
Requests a single process purge (SPP) of a named process in a selected communication module processor (CMP).	INIT:CMP-SPP 5E15 and later
Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP).	LOAD:UT-CMP 5E15 and later
Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP) message handler (CMPMSG).	LOAD:UT-CMPMSG 5E15 and later
Requests a copy of the postmortem for the communication module processor (CMP).	OP:POSTMORT-CMP 5E15 and later
Requests a report of the status of a specified audit, all audits, or all inhibited audits for a particular communication module processor (CMP) or range of CMPs.	OP:ST-AUD-CMP-A 5E15 only
Requests a report of the status of a specified audit, all audits, or all inhibited audits for a particular communication module processor (CMP) or range of CMPs.	OP:ST-AUD-CMP-B 5E16(1) and later

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Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the communications module processor (CMP).	OP:UT-CMP 5E15 and later
Requests removal of a communication module processor (CMP) from service.	RMV:CMP 5E15 and later
Requests a conditional or unconditional restore of a communication module processor (CMP) to the active or standby state.	RST:CMP 5E9(1) and later
Requests a download of the off-line communication module processor (CMP) memory for the specified CMP from the off-line administrative module (AM) disk followed by an off-line verification.	ST:OPUMP-CMP 5E9(1) and later
Stops the currently executing audit in a communication module processor (CMP).	STP:AUD-CMP 5E15 and later
Requests that specific actions on a communication module processor (CMP) be stopped (Format 1).	STP:CMP 5E15 and later
Requests that the current switch on the unit specified be stopped.	STP:SW 5E15 and later
Requests activation of the standby of the communication module processor (CMP).	SW:CMP 5E15 and later
Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified communications module processor (CMP).	WHEN:UT-CMP 5E15 and later

46. COMMUNICATIONS LINK

Topic/Purpose	Message ID/ Software Release Range
Aborts actions on the specified communication link (CLNK).	ABT:CLNK 5E15 and later
Allows level 2 and level 3 hardware checks errors to be performed on one or all communication links (CLNKs).	ALW:HDW-CLNK 5E15 and later
Inhibits level 2 and level 3 hardware checks (errors) on one or all of the specified communication links (CLNKs).	INH:HDW-CLNK 5E15 and later
Requests that a specified communication link (CLNK) be removed from service.	RMV:CLNK 5E15 and later
Requests that one or all of the specified communication links (CLNKs) be restored to an available state ('hardware available', 'active' or 'ready for level 2').	RST:CLNK 5E15 and later

46.1 Communications Link Digital Facility Interface

Topic/Purpose	Message ID/ Software Release Range
Aborts maintenance actions on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.	ABT:CDFI 5E15 and later
Allows maintenance interrupts to occur on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.	ALW:HDW-CDFI 5E15 and later
Diagnoses an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit to determine if it is in working order.	DGN:CDFI 5E15 and later
Performs maintenance exercises on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.	EX:CDFI 5E15 and later
Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be removed from service.	RMV:CDFI 5E15 and later
Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be restored to service.	RST:CDFI 5E15 and later
Requests that maintenance actions be stopped on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.	STP:CDFI 5E15 and later

47. CONTROL DATA INTERFACE

Topic/Purpose	Message ID/ Software Release Range

Aborts actions on the control data interface (CDI) at the specified location.	ABT:CDI 5E15 and later
Requests that a control data interface (CDI) be diagnosed to determine whether it is in satisfactory working order.	DGN:CDI 5E15 and later
Interactively diagnoses the control data interface (CDI) unit.	EX:CDI 5E15 and later
Requests that a control data interface (CDI) be removed from service.	RMV:CDI 5E15 and later
Requests that a trunk unit control data interface (CDI) be restored to service.	RST:CDI 5E15 and later
Requests that specified actions on the control data interface (CDI) at the specified location be stopped.	STP:CDI 5E15 and later
Requests the printing of all data collected for a traced call.	OP:TRC 5E15 and later

48. CONTROL UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests that the standby control unit memory (CUMEM) 1 audit be run in the standby control unit (CU), comparing the contents of the online and off-line main stores when in the ACT/ACT or ACT/STBY modes.	AUD:CUMEM 5E15 and later
Requests that the control unit hardware status (CUSTAT) audit be run in the manual mode.	AUD:CUSTAT 5E15 and later
Diagnoses the specified administrative module (AM) control unit (CU) complex or a specified unit within the CU complex.	DGN:CU 5E15 and later
Requests that an administrative module (AM) control unit (CU) be exercised in an interactive diagnostic mode.	EX:CU 5E15 and later
Requests that the specified administrative module (AM) control unit (CU) be removed from the standby state to the out-of-service (OOS) state.	RMV:CU 5E15 and later
Requests that a control unit (CU) be restored to standby status.	RST:CU 5E15 and later
Requests a graceful switch of the active/standby status of the administrative module (AM) control units (CUs).	SW:CU 5E15 and later

49. COPYING

Topic/Purpose	Message ID/ Software Release Range
Copies a file from an active disk to an offline (OFL) or out-of-service (OOS) disk.	COPY:ACTDISK 5E15 and later
Requests that data be copied from virtual addresses in main memory to other virtual addresses, registers, or administrative module (AM) generic access package (GRASP) utility variables as a response to a breakpoint.	COPY:ADDR 5E15 and later
Copies selected on-line disk partitions to tape in the load disk from tape (LDFT) format.	COPY:BKDISK-A 5E15 - 5E16(1)
Copies selected on-line disk partitions to tape in the load disk from tape (LDFT) format.	COPY:BKDISK-B 5E16(1) and later
Compares disk partitions in order to detect differences.	COPY:DIFF-SRC-MHD 5E15 and later
Requests that the equipment configuration database (ECD) and system generation (SG) database files be copied from the primary partition on disk to a magnetic tape.	COPY:ECD-TAPE 5E15 and later
Requests that a specific file be moved into a contiguous area.	COPY:FSYS-CFILE 5E15 and later
Requests that a specific file be copied to another file or directory.	COPY:FSYS-FILE 5E15 and later
Requests that the system office dependent data (ODD) files be copied from disk to magnetic tape.	COPY:ODD-TAPE 5E15 and later

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Copies a specific file from an out-of-service (OOS) disk to an active system disk.	COPY:OOSDISK 5E9(1) and later
Requests that data be copied from virtual addresses in main memory to the administrative module (AM) generic access package (GRASP) utility variables.	COPY:PID 5E15 and later
Requests that one set of disk partitions be copied into a corresponding set of partitions.	COPY:PTN-ALL 5E15 and later
Requests that data be copied from the administrative module (AM) registers to virtual addresses in main memory and in registers as an action associated with a breakpoint.	COPY:REG 5E15 and later
Copies a specific partition, or a list of partitions, from one of the system disks to an active spare disk.	COPY:SPDISK 5E15 and later
Copies a task oriented practice (TOP) file(s) from disk to tape.	COPY:TAPE-DATA 5E15 and later
Copies data from the emergency dump partition on a disk to a magnetic tape.	COPY:TAPE-EMERDMP 5E15 and later
Copies files from a magnetic tape containing full or relative pathnames and header information, and places them in their respective directories.	COPY:TAPE-IN 5E15 and later
Copies one or more files to a magnetic tape, along with full or relative pathnames and header (status) information.	COPY:TAPE-OUT 5E15 and later
Writes the diagnostic test tape header block onto a magnetic tape.	COPY:TAPE-TEST 5E15 and later
Copies a tape-only program (TOP) file from disk to tape.	COPY:TAPE-TOP 5E15 and later
Requests that data be copied from virtual addresses in main memory to administrative module (AM) generic access package (GRASP) utility variables as an immediate action.	COPY:UID 5E15 and later
Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the packet interface (PI) unit and optionally perform specific operations.	COPY:UT-MCTSI-PI 5E15 and later
Requests that data be copied from an administrative module (AM) generic access package (GRASP) in utility variable to virtual addresses in main memory and in registers as an action associated with a breakpoint.	COPY:UVAR 5E15 and later
Stops any COPY:DIFF:SRC input messages that are currently executing.	STOP:COPY-DIFF 5E15 and later
Stops any COPY:DIFF:SRC input messages that are currently executing.	STP:COPY-DIFF 5E15 and later

50. CUSTOMER

50.1 Customer Account Services

Topic/Purpose	Message ID/ Software Release Range
Requests that a customer account services (CAS) query be sent to the CAS/ network control point (NCP) data base to verify its operation.	TST:CAS 5E15 and later
Requests that a customer account services (CAS) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the CAS/network control point (NCP) or gateway/NCP data base to verify its operation.	TST:CAS7 5E15 and later

50.2 Customer Premise Equipment

Topic/Purpose	Message ID/ Software Release Range
Requests that information describing the configuration of the specified digital subscriber line (DSL) be displayed.	OP:CPE 5E15 and later
Requests removal from service of the specified customer premises equipment (CPE) integrated services digital network (ISDN) terminal on custom multi-point (MP) and standard interface digital subscriber line (DSL).	RMV:CPE 5E15 and later
Requests that a specified customer premises equipment (CPE) integrated services digital	RST:CPE

network (ISDN) terminal on custom multi-point (MP) and standard interface digital subscriber line (DSL) be restored to service.	5E15 and later
Requests a test of customer premises equipment (CPE) connected to a digital subscriber line (DSL) at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line input message.	TST:WSCPE 5E15 and later

51. CUSTOMER ORIGINATED TRACE

Topic/Purpose	Message ID/ Software Release Range
Requests output of the mode, priority, and number of messages buffered for the customer-originated trace (COT) feature.	OP:COT-STATUS 5E15 and later
Requests that the mode and/or priority of customer-originated traces (COT) be changed.	SET:COT 5E15 and later

52. CUSTOMER SERVICE COMPUTER ACCESS NETWORK SYSTEM

Topic/Purpose	Message ID/ Software Release Range
Requests a report containing the current status of the active file receiving process from the Customer Service Computer Access Network System (CSCANS) interface.	UPD:CSCANS-REPT 5E15 and later
Requests that the download of software update files from the remote source be terminated.	UPD:CSCANS-STOP 5E15 and later

53. CUTOVER AND CUTBACK

Topic/Purpose	Message ID/ Software Release Range
Transfers lines from one switching system to another switching system (cutover and cutback).	EXC:CO 5E15 and later

54. DEBUGGING

Topic/Purpose	Message ID/ Software Release Range
Requests that debugging messages be allowed to be printed for a given feature.	ALW:DEBUG 5E15 and later
Requests that debugging messages be inhibited from being printed for a given feature.	INH:DEBUG 5E15 and later
Requests that status of metallic debugging flags be printed for the specified SM.	OP:DEBUG 5E15 and later

55. DEFAULT CELL GROUP

Topic/Purpose	Message ID/ Software Release Range
Requests that the reporting of information related to calls pegging the default cell group (DCG) be allowed.	ALW:DCGRPT 5E15 and later
Requests that the reporting of information related to calls pegging the default cell group (DCG) be stopped.	STP:DCGRPT 5E15 and later

56. DEFENSE SWITCH NETWORK

Topic/Purpose	Message ID/ Software Release Range
Deletes a package from the five-minute (M5) surveillance data set of packages.	CLR:DSNM5

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	5E15 and later
To refresh the defense switched network (DSN) management page.	INIT:DSNPAGE 5E15 and later
Requests a list of a package from the five-minute surveillance data set of packages.	OP:DSNM5 5E15 and later
Requests that a package be added to the five minute surveillance data set of packages for the on-site network management channel.	SET:DSNM5 5E15 and later

57. DESTINATION CODE CANCELLATION

Topic/Purpose	Message ID/ Software Release Range
Clears destination code cancellation (DCC) controls restricting traffic.	CLR:DCC 5E15 and later
Lists all destination code cancellation (DCC) controls in the office.	OP:DCC 5E15 and later
Requests that a destination code cancellation (DCC) control to be set or modified to restrict traffic to a specified destination code.	SET:DCC 5E15 and later

58. DIAGNOSTIC TESTS

Topic/Purpose	Message ID/ Software Release Range
Requests to execute the main store (MAS) diagnostic phase with user-supplied address range, refresh rate, number of failures to be collected, data pattern (phase 95), words per array to copy (phase 96), and refresh parity check time (phase 96).	EX:LDPARM 5E15 and later
Requests to perform a specified group of diagnostic tasks repeatedly.	EX:LOOP 5E15 and later
To request to pause or suspend the diagnostic execution at a specified statement number within a diagnostic phase.	EX:PAUSE 5E15 and later
Requests to step through the diagnostic input messages and suspend at the specified statement number.	EX:STEP 5E15 and later
Requests to exit from the interactive diagnostic mode.	EX:STOP 5E15 and later
Requests that a circuit pack return tag is to be printed based on the information taken from the failing diagnostics on the switch.	OP:TAG 5E15 and later
Requests that the current diagnostic on the unit specified be stopped.	STP:DGN 5E15 and later

59. DIGITAL AUDIO TAPE

Topic/Purpose	Message ID/ Software Release Range
Copies the contents of a multi-volume formatted digital audio tape (DAT) from a source DAT drive to a destination DAT drive.	COPY:BKTAPE 5E15 and later
Displays the contents of the multi-volume digital audio tape (DAT) logical volume headers and optionally provides an estimate of how full the tape is.	DUMP:BKTAPE-A 5E15 - 5E16(1)
Displays the contents of the multi-volume digital audio tape (DAT) logical volume headers and optionally provides an estimate of how full the tape is.	DUMP:BKTAPE-B 5E16(1) and later

60. DIGITAL CELLULAR SWITCH

Topic/Purpose	Message ID/ Software Release Range
Requests that either a reset of the client password to the Flexent\(rg operations & management platform (OMP-FX) to the default value or a reset of the secure shell (SSH) public key from the OMP-FX to null be done.	CLR:MELNK 5E20(1) and later

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61. DIGITAL FACILITY INTERFACE

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the digital facility interface (DFI) at the specified location be aborted.	ABT:DFI 5E15 and later
Allows hardware error checks to be performed on the specified digital facility interface (DFI).	ALW:HDW-DFI 5E15 and later
Requests that a digital facility interface (DFI) circuit be removed and diagnosed.	DGN:DFI 5E15 and later
Interactively diagnoses (exercises) the digital facility interface (DFI).	EX:DFI 5E15 and later
Request reset of signaling converter unit equipped on facility terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), or a digital networking unit - synchronous optical network (SONET) (DNU-S) (VT1.5 facility or DS1 facility) to perform its initialization.	INIT:SC 5E15 and later
Requests that a digital facility interface (DFI) be removed from service.	RMV:DFI 5E15 and later
Requests that a digital facility interface (DFI) be restored to service.	RST:DFI 5E15 and later
Requests that actions on the digital facility interface (DFI) at the specified location be stopped.	STP:DFI 5E15 and later

61.1 Communications Link Digital Facilities Interface

Topic/Purpose	Message ID/ Software Release Range
Aborts maintenance actions on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.	ABT:CDFI 5E15 and later
Allows maintenance interrupts to occur on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.	ALW:HDW-CDFI 5E15 and later
Diagnoses an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit to determine if it is in working order.	DGN:CDFI 5E15 and later
Performs maintenance exercises on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.	EX:CDFI 5E15 and later
Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be removed from service.	RMV:CDFI 5E15 and later
Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be restored to service.	RST:CDFI 5E15 and later
Requests that maintenance actions be stopped on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.	STP:CDFI 5E15 and later

61.2 Digital Facility Interface Circuit Pair

Topic/Purpose	Message ID/ Software Release Range
Aborts maintenance actions on a remote integrated services line unit (RISLU) host/remote digital facility interface (DFIH) circuit pair.	ABT:DFIH 5E15 and later
Allows hardware checks to occur on a remote integrated services line unit (RISLU) host/remote digital facility interface (DFIH) circuit pair.	ALW:HDW-DFIH 5E15 and later
Diagnoses a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) to determine whether it is in satisfactory working order.	DGN:DFIH 5E15 and later
Exercises a remote integrated services line unit (RISLU) host/remote digital facility interface (DFI) circuit pair.	EX:DFIH 5E15 and later
Inhibits hardware checks in a remote integrated services line unit (RISLU) host/remote digital facility interface circuit (DFIH) pair.	INH:HDW-DFIH 5E15 and later
Requests that a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) be removed from service.	RMV:DFIH 5E15 and later
Requests that a remote integrated services line unit (RISLU) host/remote digital facility	RST:DFIH

interface circuit pair (DFIH) be restored to the active state.	5E15 and later
Requests that maintenance actions on a remote integrated services line unit (RISLU) host/remote digital facility interface (DFIH) circuit pair be stopped.	STP:DFIH 5E15 and later

62. DIGITAL NETWORK UNIT - SONET

Topic/Purpose	Message ID/ Software Release Range
Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).	ABT:DNUSCC 5E15 and later
Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).	ABT:DNUSCD 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.	ABT:RMV-RT 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.	ABT:RST-RT 5E15 and later
Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).	ALW:HDW-DNUSCC 5E15 and later
Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).	ALW:HDW-DNUSCD 5E15 and later
Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).	DGN:DNUSCC 5E15 and later
Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).	DGN:DNUSCD 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) common controller (CC) be dumped.	DUMP:UT-DNUS 5E15 and later
Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S).	EXC:UT-DNUS 5E15 and later
Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).	INH:HDW-DNUSCC 5E15 and later
Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).	INH:HDW-DNUSCD 5E15 and later
Requests that a value(s) be loaded into the memory of the specified digital networking unit - SONET (DNU-S).	LOAD:UT-DNUS 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be removed from service.	RMV:DNUSCC 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be removed from service.	RMV:DNUSCD 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:DNUSEOC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:DNUSTMC 5E15 and later
Requests that a digital networking unit - electrical carrier level 1 SONET termination equipment facility (EC1STE) be removed from service.	RMV:EC1STE 5E15 and later
Requests that a remote terminal (RT) facility (FAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:RTFAC 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be restored to service.	RST:DNUSCC 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be restored to service.	RST:DNUSCD 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.	RST:DNUSEOC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.	RST:DNUSTMC 5E15 and later

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Requests that a digital networking unit - electrical carrier level 1 SONET termination equipment facility (EC1STE) be restored to service.	RST:EC1STE 5E15 and later
Requests that a remote terminal (RT) facility (FAC) circuit be restored to service.	RST:RTFAC 5E15 and later
Requests that a remote terminal (RT) facility (FAC) circuit be restored to service.	RST:RTFAC 5E15 and later
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).	STP:DNUSCC 5E15 and later
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).	STP:DNUSCD 5E15 and later
Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped.	STP:DNUSEOC 5E15 and later
Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.	STP:DNUSTMC 5E15 and later
Requests that maintenance actions be stopped on a digital networking unit - electrical carrier level 1 SONET termination equipment (EC1STE) facility.	STP:EC1STE 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.	STP:RMV-RT 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.	STP:RST-RT 5E15 and later
Requests that actions on a remote terminal (RT) facility (FAC) circuit be stopped.	STP:RTFAC 5E15 and later
Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be switched (interchanged).	SW:DNUSCC 5E15 and later
Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be switched (interchanged).	SW:DNUSCD 5E15 and later
Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).	SW:DNUSEOC 5E15 and later
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).	SW:DNUSTMC 5E15 and later

62.1 Synchronous Transport Signal Electrical Interface Facility Interface

Topic/Purpose	**Message ID/ Software Release Range**
Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).	ABT:SFI 5E15 and later
Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).	ALW:HDW-SFI 5E15 and later
Requests that diagnostics be executed on a digital networking unit - synchronous (DNU-S) optical network synchronous transport signal electrical interface (STSX-1) facility interface (SFI).	DGN:SFI 5E15 and later
Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).	INH:HDW-SFI 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI) be removed from service.	RMV:SFI 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI) be restored to service.	RST:SFI 5E15 and later
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).	STP:SFI 5E15 and later
Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) STSX-1 facility interface (SFI) be switched (interchanged).	SW:SFI 5E15 and later

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62.2 Synchronous Transport Signal Facility

Topic/Purpose	Message ID/ Software Release Range
This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE.	OP:PTRC-STSFAC 5E15 only
Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be removed from service.	RMV:STSFAC 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be restored to service.	RST:STSFAC 5E15 and later
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC).	STP:STSFAC 5E15 and later

62.3 Transmission Multiplexer

Topic/Purpose	Message ID/ Software Release Range
Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).	ABT:TMUX 5E15 and later
Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).	ALW:HDW-TMUX 5E15 and later
Requests that diagnostics be executed on a digital networking unit - synchronous (DNU-S) optical network transmission multiplexer (TMUX).	DGN:TMUX 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) transmission multiplexer (TMUX) be dumped.	DUMP:UT-TMUX 5E15 and later
Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).	EXC:UT-TMUX 5E15 and later
Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).	INH:HDW-TMUX 5E15 and later
Requests that a value be loaded into the memory of the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).	LOAD:UT-TMUX 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX) be removed from service.	RMV:TMUX 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX) be restored to service.	RST:TMUX 5E15 and later
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).	STP:TMUX 5E15 and later

62.4 Virtual Tributary Level 1 Facility

Topic/Purpose	Message ID/ Software Release Range
Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be removed from service.	RMV:VT1FAC 5E15 and later
Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be restored to service.	RST:VT1FAC 5E15 and later
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC).	STP:VT1FAC 5E15 and later

63. DIGITAL SERVICE CIRCUIT

Topic/Purpose	Message ID/ Software Release Range
Requests that a digital service circuit (DSC) be removed and diagnosed.	DGN:DSC 5E15 and later
Inhibits the hardware error checks performed on the specified digital facility interface (DFI).	INH:HDW-DFI

	5E15 and later
Requests that a digital service circuit (DSC) be removed from service.	RMV:DSC 5E15 and later
Requests that a digital service circuit (DSC) be restored.	RST:DSC 5E15 and later

64. DIGITAL SIGNAL LEVEL 1

Topic/Purpose	Message ID/ Software Release Range
Requests that the currently executing maintenance action on a digital signal - level 1 (DS1) be aborted.	ABT:DS1 5E16(1) and later
Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).	ABT:DS1SFAC 5E15 and later
Requests that a digital signal - level 1 (DS1) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:DS1 5E16(1) and later
Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be removed from service.	RMV:DS1SFAC 5E15 and later
Requests that a digital signal - level 1 (DS1) be restored to service.	RST:DS1 5E16(1) and later
Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be restored to service.	RST:DS1SFAC 5E15 and later
Requests that the currently executing maintenance action on a digital signal - level 1 (DS1) be stopped.	STP:DS1 5E16(1) and later
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).	STP:DS1SFAC 5E15 and later

65. DIRECT LINK NODE

Topic/Purpose	Message ID/ Software Release Range
Requests that the common network interface (CNI) automatic direct link node (DLN) heartbeat test be allowed.	ALW:DLNHB 5E15 and later
Requests that the common network interface (CNI) automatic direct link node (DLN) heartbeat test be inhibited.	INH:DLNHB 5E15 and later
Requests an initialization of the selected direct link node (DLN) at the specified level.	INIT:DLN 5E15 and later
Requests a single process purge (SPP) of a named process in a selected direct link node (DLN).	INIT:DLN-SPP-PID 5E15 and later
Switches the active standby status of the direct link nodes (DLN) on the common network interface (CNI) ring.	SW:DLN 5E15 and later

66. DIRECT SIGNALING

Topic/Purpose	Message ID/ Software Release Range
Requests that the trapping and printing of direct signaling events (DSE) be turned off.	CLR:DSE 5E15 and later
Requests that a direct signaling translation test (DSTT) be initiated.	EXC:DSTT 5E15 and later
Requests that the trapping and printing of direct signaling events (DSEs) be turned on.	SET:DSE 5E15 and later

67. DIRECT USER INTERFACE

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified direct user interface controller (DUIC).	DGN:DUIC

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	5E15 and later
Exercises a direct user interface controller (DUIC) in an interactive diagnostic mode.	EX:DUIC 5E15 and later
Requests that a specified direct user interface (DUI) be removed device from service.	RMV:DUI 5E15 and later
Requests that the specified direct user interface controller (DUIC) be removed from service.	RMV:DUIC 5E15 and later
Requests that a direct user interface (DUI) device be restored to service.	RST:DUI 5E15 and later
Requests that a direct user interface controller (DUIC) be restored to service.	RST:DUIC 5E15 and later

68. DIRECTLY CONNECTED OFFICE

Topic/Purpose	Message ID/ Software Release Range
Requests a list of all offices that have trunk groups terminating at this switch.	OP:DCOFC 5E15 and later

69. DIRECTLY COUPLED TEST UNIT

69.1 Directly Coupled Test Unit Common Board

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the directly connected test unit common board (DCTUCOM) at the specified location be aborted.	ABT:DCTUCOM 5E15 and later
Requests that a directly connected unit common board (DCTUCOM) be diagnosed to determine whether it is in satisfactory working order.	DGN:DCTUCOM 5E15 and later
Interactively diagnoses (exercises) the directly connected test unit common board (DCTUCOM).	EX:DCTUCOM 5E15 and later
Requests that a directly connected test unit common board (DCTUCOM) circuit be removed from service.	RMV:DCTUCOM 5E15 and later
Requests that a single directly connected test unit common board (DCTUCOM) circuit be restored to service.	RST:DCTUCOM 5E15 and later
Requests that actions on the directly connected test unit common board (DCTUCOM) at the specified location be stopped.	STP:DCTUCOM 5E15 and later

69.2 Directly Coupled Test Unit Port Circuit

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the directly connected test unit port (DCTUPORT) circuit at the specified location be aborted.	ABT:DCTUPORT 5E15 and later
Requests that a directly connected test unit port circuit (DCTUPORT) be diagnosed to determine whether it is in satisfactory working order.	DGN:DCTUPORT 5E15 and later
Requests interactive diagnostics (exercises) of the directly connected test unit port circuit (DCTUPORT).	EX:DCTUPORT 5E15 and later
Requests that a directly connected test unit port circuit (DCTUPORT) be removed from service.	RMV:DCTUPORT 5E15 and later
Requests that a single directly connected test unit port circuit (DCTUPORT) circuit be restored to service.	RST:DCTUPORT 5E15 and later
Requests that actions on the directly connected test unit port (DCTUPORT) at the specified location be stopped.	STP:DCTUPORT 5E15 and later

69.3 Equipment Access Network

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the equipment access network (EAN) at the specified location be aborted.	ABT:EAN 5E15 and later
Requests that an equipment access network (EAN) be diagnosed to determine whether it is in satisfactory working order.	DGN:EAN 5E15 and later
Interactively diagnoses (exercises) the equipment access network (EAN).	EX:EAN 5E15 and later
Requests that an equipment access network (EAN) be removed from service.	RMV:EAN 5E15 and later
Requests that a single equipment access network (EAN) circuit be restored to service.	RST:EAN 5E15 and later
Requests that actions on the equipment access network (EAN) at the specified location be stopped.	STP:EAN 5E15 and later

69.4 Precision Measurement Unit

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the precision measurement unit (PMU) be aborted at the specified location.	ABT:PMU 5E15 and later
Requests that a precision measurement unit (PMU) be diagnosed to determine whether it is in satisfactory working order.	DGN:PMU 5E15 and later
Requests interactive diagnostics (exercises) of the precision measurement unit (PMU).	EX:PMU 5E15 and later
Requests that a precision measurement unit (PMU) be removed from service.	RMV:PMU 5E15 and later
Requests a single precision measurement unit (PMU) circuit be conditionally or unconditionally restored to service.	RST:PMU 5E15 and later
Requests that actions on the pulse metering unit (PMU) at the specified location be stopped.	STP:PMU 5E15 and later

70. DISK FILE CONTROLLER

Topic/Purpose	Message ID/ Software Release Range
Requests that the specified disk file controller (DFC) be diagnosed.	DGN:DFC 5E15 and later
Exercises a disk file controller (DFC) in an interactive diagnostic mode.	EX:DFC 5E15 and later
Requests specific information regarding the specified disk file controller (DFC) and equipped sub-devices.	OP:DFC-INFO-A 5E15 - 5E17(1)
Requests specific information regarding the specified disk file controller (DFC) and equipped sub-devices.	OP:DFC-INFO-B 5E18(1) and later
Requests that enhanced information report (EIR) entries of the disk driver logfile be printed and formatted.	OP:DFCELOG 5E15 and later
Requests that a specified disk file controller (DFC) and any associated moving head disks (MHDs) be removed from service.	RMV:DFC 5E15 and later
Requests that a disk file controller (DFC) be restored to service.	RST:DFC 5E15 and later
Requests a download of a pumpcode file into a small computer system interface (SCSI) device file controller's (DFC) non-volatile FLASH memory.	UPD:FLASH-DFC 5E15 and later

71. DISTRIBUTE POINT BOARD

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the distribute point board (DIST) at the specified location be aborted.	ABT:DIST

	5E15 and later
Requests that a distribute (DIST) point board be diagnosed to determine whether it is in satisfactory working order.	DGN:DIST 5E15 and later
Interactively diagnoses (exercises) the distribute point board (DIST).	EX:DIST 5E15 and later
Requests that a distribute point board (DIST) be removed from service.	RMV:DIST 5E15 and later
Requests that a distribute point board (DIST) in a metallic service unit be restored to service.	RST:DIST 5E15 and later
Requests that actions on the distribute point board (DIST) at the specified location be stopped.	STP:DIST 5E15 and later

72. DISTRIBUTING FRAME TEST ACCESS CIRCUIT

Topic/Purpose	Message ID/ Software Release Range
Requests that currently running actions be aborted without cleaning up on the distributing frame test access circuit (DFTAC).	ABT:DFTAC 5E15 and later
Requests that the distributing frame test access circuit (DFTAC) be diagnosed to determine whether it is in satisfactory working order.	DGN:DFTAC 5E15 and later
Interactively diagnoses (exercises) the distributing frame test access circuit (DFTAC) to determine whether it is in satisfactory working order.	EX:DFTAC 5E15 and later
Inhibits the hardware error checks performed on the specified distributing frame test access circuit (DFTAC).	INH:HDW-DFTAC 5E15 and later
Requests that the distributing frame test access circuit (DFTAC) be removed from service.	RMV:DFTAC 5E15 and later
Requests that the distributing frame test access circuit (DFTAC) be restored to the active state.	RST:DFTAC 5E15 and later
Requests that currently running actions on the distributing frame test access circuit (DFTAC) be stopped.	STP:DFTAC 5E15 and later

73. DIVISION OF REVENUE HOURLY REPORT

Topic/Purpose	Message ID/ Software Release Range
Allows the division of revenue hourly (DRHR) report to be output to the traffic channel.	ALW:DRHR 5E15 and later
Inhibits the division of revenue hourly report (DRHR) from being output to the traffic channel.	INH:DRHR 5E15 and later
Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNTHR), traffic 15 (TRFC15), and all sections of the traffic 30 (TRFC30) reports.	OP:MEASTAT-A 5E15 - 5E19(1)
Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNTHR), traffic 15 (TRFC15), and all sections of the traffic 30 (TRFC30) reports.	OP:MEASTAT-B 5E20(1) and later
Report the collection status in transient collection buffers for TRFC30 traffic data collection (TDC) sections.	OP:MEASTAT-MEM 5E20(1) and later

74. DMERT APPLICATION PROCESS

Topic/Purpose	Message ID/ Software Release Range
Allows a kernel process environment audit to execute automatically or allows an audit cycle in the administrative module (AM) to execute routinely.	ALW:AUD-ENV 5E15 and later
Requests a kernel process environment (OKP or SMKP) audit to be run in the administrative module.	AUD:ENV 5E15 and later
Inhibits the automatic execution of a kernel process environment (OKP or SMKP) audit or the routine execution of the cycle in the administrative module (AM).	INH:AUD-ENV 5E15 and later

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Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.	OP:ST-AUD-ENV-A 5E15 only
Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.	OP:ST-AUD-ENV-B 5E16(1) and later
Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.	OP:ST-AUD-SM-A 5E15 only
Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.	OP:ST-AUD-SM-B 5E16(1) and later
Requests that the currently executing kernel process environment (OKP or SMKP) audit in the administrative module (AM) be stopped.	STP:AUD-ENV 5E15 and later

75. DUAL LINK INTERFACE

Topic/Purpose	Message ID/ Software Release Range
Aborts an action on a specific dual link interface (DLI) or range of DLIs in the specified office network and timing complex (ONTC).	ABT:DLI 5E15 and later
Diagnoses a specific dual link interface (DLI) or a range of DLIs in a switching module (SM) on a specified side of the office network and timing complex (ONTC), and determines if in satisfactory working order.	DGN:DLI 5E15 and later
Requests that the dual link interface (DLI) be exercised in a switching module (SM) on the specified office network and timing complex (ONTC) side in an interactive mode.	EX:DLI 5E15 and later
Requests a removal of a specific dual link interface (DLI) and places it in the 'OOS MAN RMV' state.	RMV:DLI 5E15 and later
Requests that a specific dual link interface (DLI) or range of DLIs be restored to service.	RST:DLI 5E15 and later
Requests that an action on a specific dual link interface (DLI) or range of DLIs in the specified office network and timing complex (ONTC) be stopped.	STP:DLI 5E15 and later

76. DUAL SERIAL CHANNEL/COMPUTER INTERCONNECT

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified dual serial channel/computer interconnect (DCI).	DGN:DCI 5E15 and later
Exercises a dual serial channel/computer interconnect (DCI) in an interactive diagnostic mode.	EX:DCI 5E15 and later
Removes the specified dual serial channel/computer interconnect (DCI) from service.	RMV:DCI 5E15 and later
Restores a dual serial channel/computer interconnect (DCI), conditionally or unconditionally to service.	RST:DCI 5E15 and later
Requests a termination of the DCI process.	STOP:DCI 5E15 and later

77. DUMP

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified moving head disk (MHD).	DGN:MHD 5E15 and later
Requests that the contents of a specified range of virtual addresses in the administrative module (AM) main memory be dumped as an action associated with a breakpoint.	DUMP:ADDR 5E15 and later
Dumps the contents of the offline cache into administrative module (AM) processor main memory.	DUMP:CACHE 5E15 and later
Requests that the contents of an ASCII file be dumped.	DUMP:F-ALL 5E15 and later
Dumps the contents of a file in the specified format.	DUMP:F-FORMAT 5E15 and later

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Prints one or more lines of an American standard code for information interchange (ASCII) file.	DUMP:F-PARTL 5E15 and later
Requests that the contents of a specified range of virtual addresses in the administrative module (AM) kernel be dumped as an immediate action.	DUMP:KERN 5E15 and later
Dumps the contents of a specified single disk block or a range of blocks, in hexadecimal.	DUMP:MHD-BLOCK 5E15 and later
Dumps defect management information for a moving head disk (MHD).	DUMP:MHD-DEFECT 5E15 and later
Formats and prints the contents of a disk pack's volume table of contents (VTOC).	DUMP:MHD-VTOC 5E15 and later
Dumps the contents of the specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified process identifier.	DUMP:PID 5E15 and later
Dumps the contents of a specified range of physical addresses in main memory.	DUMP:PMEM 5E15 and later
Dumps the contents of one or more registers, either as an immediate action, or as an action associated with a breakpoint.	DUMP:REG 5E15 and later
Requests a dump of the common channel interoffice signaling (CCIS) signaling measurements (SMEAS) from history files.	DUMP:SMEAS 5E15 and later
Dumps the contents of a specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified utility identifier.	DUMP:UID 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) be dumped.	DUMP:UT-IDCU 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) loop side interface (LSI) be dumped.	DUMP:UT-IDCULSI 5E15 and later
Dumps the contents of one or more administrative module (AM) generic access package (GRASP) utility variables either as an immediate message or as an action associated with a breakpoint.	DUMP:UVAR 5E15 and later

78. DYNAMIC OVERLOAD CONTROLS

Topic/Purpose	Message ID/ Software Release Range
Requests that dynamic overload control (DOC) treatment be allowed upon the reception of DOC signals for a specified trunk group.	ALW:DOC 5E15 and later
Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.	ASGN:DOC-A 5E15 only
Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.	ASGN:DOC-B 5E16(1) only
Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.	ASGN:DOC-C 5E16(2) and later
Requests that a single dynamic overload control (DOC) be cleared on a specified trunk group.	CLR:DOC 5E15 and later
Requests that the dynamic overload control (DOC) treatment be inhibited upon the reception of DOC signals on a per trunk group basis.	INH:DOC 5E15 and later

78.1 Dynamic Overload Controls and Selective Incoming Load Control

Topic/Purpose	Message ID/ Software Release Range
Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be allowed.	ALW:DSILC 5E15 and later
Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be inhibited.	INH:DSILC 5E15 and later

79. EMBEDDED OPERATIONS CHANNEL

Topic/Purpose	Message ID/ Software Release Range

Requests that information describing the configuration of the embedded operations channel (EOC) and timeslot management channel (TMC) for the specified remote terminal (RT) be displayed.	OP:RT-CHAN 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:DNUSEOC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:IDCUEOC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:RT-EOC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.	RST:DNUSEOC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.	RST:IDCUEOC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.	RST:RT-EOC 5E15 and later
Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped.	STP:DNUSEOC 5E15 and later
Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped.	STP:IDCUEOC 5E15 and later
Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).	SW:DNUSEOC 5E15 and later
Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).	SW:IDCUEOC 5E15 and later
Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).	SW:RT-EOC 5E15 and later

80. EMERGENCY ACTION INTERFACE

Topic/Purpose	Message ID/ Software Release Range
Allows the logging and processing of emergency action interface (EAI) error interrupts from the 3B21D computer control unit (CU) specified in the identification field.	ALW:EAIINT 5E15 and later
Inhibits the logging and processing of emergency action interface (EAI) error interrupts from the 3B21D computer control unit (CU) specified in the identification field.	INH:EAIINT 5E15 and later

81. EMERGENCY DUMP

Topic/Purpose	Message ID/ Software Release Range
Clears the emergency dump partition status flag.	CLR:EMERDMP 5E15 and later
Requests the status of the emergency dump partition on the disk: full or empty.	OP:EMERSTAT 5E15 and later

82. ENHANCED 911

Topic/Purpose	Message ID/ Software Release Range
Request to clear the forced active state of an enhanced 911 service adjunct (ESA).	CLR:ESA 5E15 and later
Requests the current status of the enhanced 911 service adjuncts (ESAs).	OP:ESA 5E15 and later
Requests to make a specified enhanced 911 service adjunct (ESA) active.	SET:ESA 5E15 and later

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Requests that an enhanced 911 (E911) test query be sent to the enhanced 911 service adjunct (ESA) to retrieve an emergency service number (ESN).	TST:E911 5E15 and later

83. EXECUTIVE CELLULAR PROCESSOR

Topic/Purpose	Message ID/ Software Release Range
Requests that the executive cellular processor (ECP) heartbeat printing functionality be allowed.	ALW:HBPRT 5E20(1) and later
Requests that the executive cellular processor (ECP) heartbeat printing functionality be inhibited.	INH:HBPRT 5E20(1) and later
To request the status of executive cellular processor (ECP) heartbeat printing functionality.	OP:HBPRT 5E20(1) and later

84. EQUIPMENT CONFIGURATION DATA

Topic/Purpose	Message ID/ Software Release Range
Requests that the execution of the on-switch equipment configuration database (ECD) audit be allowed.	ALW:ECDAUD 5E15 and later
Requests that the equipment configuration database (ECD) be audited.	AUD:ECD 5E15 and later
Compares the text portions of the disk and core images of a non-killable process.	CMPR:DISK-CORE 5E15 and later
Requests the immediate execution of the on-switch equipment configuration database (ECD) audit to audit the data in the root ECD database.	EXC:ECDAUD 5E15 and later
Requests that the execution of the on-switch equipment configuration database (ECD) audit be inhibited.	INH:ECDAUD 5E15 and later
Requests that the status of a previous execution or a currently running on-switch ECD audit be output.	OP:ECDAUD 5E15 and later
Requests one or all of the available output classes in the equipment configuration database (ECD) and the device(s) assigned to these output classes.	OP:OUTCLS 5E15 and later
Requests displays of information about all the reports available in the measurement output control (MOC) schedule table (SCHD).	OP:SCHD 5E15 and later
Request that the on-switch ECD audit be scheduled for automatic execution.	SCHED:ECDAUD 5E15 and later
Requests that a currently running on-switch ECD audit be terminated.	STOP:ECDAUD 5E15 and later

85. ERROR SOURCES

Topic/Purpose	Message ID/ Software Release Range
Allows the logging and processing of all administrative module (AM) computer error sources.	ALW:ERRCHK 5E15 and later
Requests that the logging and processing of administrative module (AM) error interrupts attached to the unit specified in the identification field be allowed.	ALW:ERRINT 5E15 and later
Requests that the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities be allowed.	ALW:ERRSRC 5E15 and later

86. ESSENTIAL SERVICE PROTECTION

Topic/Purpose	Message ID/ Software Release Range
Requests that essential service protection (ESP) be enabled.	ALW:ESP 5E15 and later
Requests that the essential service protection (ESP) be inhibited.	INH:ESP

	5E15 and later

87. EXTERNAL SANITY MONITOR

Topic/Purpose	Message ID/ Software Release Range
Requests that the external sanity monitor (ESM) alarm be cleared.	CLR:ESM 5E15 and later

88. FACILITY PERFORMANCE MONITORING ALERT

Topic/Purpose	Message ID/ Software Release Range
Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.	INH:FAC-A 5E15 only
Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.	INH:FAC-B 5E16(1) only
Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), digital networking unit - synchronous optical network (SONET) (DNU-S) number or a session initiation protocol (SIP) protocol handler (PH) on a packet switch unit (PSU).	INH:FAC-C 5E16(2) and later

89. FAULT ANALYSIS

Topic/Purpose	Message ID/ Software Release Range
Requests that the fault analysis trouble locating procedure (FATLP) tool be run.	RCV:M-FATLP 5E15 and later

90. FEATURE ACTIVATION COUNTING AND RECONCILIATION

Topic/Purpose	Message ID/ Software Release Range
This command is associated with a secured or proprietary feature.	ALW:EON5REPT 5E15 only
This message is assoicated with a secured or proprietary feature.	ALW:ESQREPT 5E15 and later
Requests that a scheduled feature activation counting and reconciliation (FACR) entry be removed.	DEL:FACR 5E15 and later
Requests that the feature activation counting and reconciliation (FACR) audit be started.	EXC:FACR 5E15 and later
This command is associated with a secured or proprietary feature.	INH:EON5REPT 5E15 only
This message is associated with a secured or proprietary feature.	INH:ESQREPT 5E15 and later
Format 1 requests that the password for retrieval of the feature activation counting and reconciliation (FACR) output files be initialized.	INIT:FACR-A 5E15 - 5E16(1)
Format 1 requests that the password for retrieval of the feature activation counting and reconciliation (FACR) output files be initialized.	INIT:FACR-B 5E16(2) and later

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Requests for a report on either the state of the feature activation counting and reconciliation (FACR) audit or what scheduled requests have been made for execution of the FACR audit.	OP:FACR 5E15 and later
Requests that the feature activation counting and reconciliation (FACR) audit be scheduled for execution at a specific date and hour.	SCHED:FACR 5E15 and later
Requests that a running feature activation counting and reconciliation (FACR) audit be terminated.	STP:FACR 5E15 and later

91. FILES

Topic/Purpose	Message ID/ Software Release Range
Requests that a simple existence audit of files on the disks be run.	AUD:FILES 5E15 and later
Appends one line of user-supplied text at a specified location in a regular ASCII file.	IN:F-APND 5E15 and later
Deletes one or more lines from a regular ASCII file.	IN:F-DEL 5E15 and later
Replaces one or more lines of a regular ASCII file with one line of user-supplied text.	IN:F-REPL 5E15 and later
Reports the full pathname of a file in a mounted file system.	OP:FNAME 5E15 and later

92. FILE SYSTEMS

Topic/Purpose	Message ID/ Software Release Range
Requests that the access permissions of a specific file be changed.	ALW:FSYS-ACCESS 5E15 and later
Allows a removable file system to be mounted.	ALW:FSYS-MOUNT 5E15 and later
Requests that the owner and group of a specific file be changed.	ALW:FSYS-OWNER 5E15 and later
Removes a directory from the file system.	CLR:FSYS-DIR 5E15 and later
Request that a file be removed from a directory.	CLR:FSYS-FILE 5E15 and later
Requests that a specific file be moved into a contiguous area.	COPY:FSYS-CFILE 5E15 and later
Requests that a specific file be copied to another file or directory.	COPY:FSYS-FILE 5E15 and later
Creates a specified directory with read, write, and execute permissions for the owner, group and others (mode 777).	IN:FSYS-DIR 5E15 and later
Inhibits the use of a previously mounted file system.	INH:FSYS-UMOUNT 5E15 and later
Requests the number of blocks contained in all files and directories within each specified directory or filename.	OP:ST-DISKUSE 5E15 and later
Requests information about all of the mounted file systems.	OP:ST-FILESYS 5E15 and later
Requests the number of free blocks and free inodes available for online file systems.	OP:ST-FREEDISK 5E15 and later
Requests the contents of a specific directory or file.	OP:ST-LISTDIR 5E15 and later
Requests a 16-bit checksum for a specified file, and prints the number of blocks in the file.	OP:ST-SUM 5E15 and later
Requests a report indicating the space available in the specified file system be generated.	REPT:SPACE 5E15 and later

93. FIVE MINUTE SURVEILLANCE

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Topic/Purpose	Message ID/ Software Release Range
Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.	CLR:M5-A 5E15 - 5E16(1)
Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.	CLR:M5-B 5E16(2) and later
Requests a specified package from the five-minute (M5) surveillance data.	OP:M5-A 5E15 - 5E16(1)
Requests a specified package from the five-minute (M5) surveillance data.	OP:M5-B 5E16(2) and later
Requests the five-minute surveillance packages assigned for both the remote network management system (RNMS) (the primary channel) and on-site channel (the backup channel).	OP:M5PKG 5E15 and later
Requests that a package be added to the five-minute (M5) surveillance data set of packages for the on-site network management channel.	SET:M5-A 5E15 - 5E16(1)
Requests that a package be added to the five-minute surveillance data set of packages for the on-site network management channel.	SET:M5-B 5E16(2) and later

94. FLASH MEMORY

Topic/Purpose	Message ID/ Software Release Range
Requests a check of switching module (SM) flash memory consistency for CORE700 and MHPPC.	OP:FMCON 5E16(2) and later
Requests the flash memory component version numbers.	OP:FMVER 5E16(2) and later

95. FORCED CONFIGURATION

Topic/Purpose	Message ID/ Software Release Range
Clears the forced configuration of the message switch control unit (MSCU).	CLR:FRC-MSCU 5E15 and later
Clears the forced configuration on the office network and timing complex common unit (ONTCCOM).	CLR:FRC-ONTCCOM 5E15 and later
Clears the "force" on a particular function pack pair of a TRCU3 circuit.	CLR:FRC-TRCU3 5E15 and later
Requests that the specified side of the message switch control unit (MSCU) be forced active.	SET:FRC-MSCU 5E15 and later
Requests that the specified side of the office network and timing complex common unit (ONTCCOM) be forced active.	SET:FRC-ONTCCOM 5E15 and later
This request is used to "force" active a particular function pack pair of a transmission rate conversion unit - model III (TRCU3) circuit.	SET:FRC-TRCU3 5E15 and later

96. FOUNDATION PERIPHERAL CONTROLLER

Topic/Purpose	Message ID/ Software Release Range
Aborts actions on the specified foundation peripheral controller (FPC).	ABT:FPC 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified foundation peripheral controller (FPC).	ALW:HDW-FPC 5E15 and later
Requests diagnostics on a foundation peripheral controller (FPC) to determine if it is in satisfactory working order.	DGN:FPC 5E15 and later
Requests that the contents of one or more sequential memory location in the specified foundation peripheral controller (FPC) be dumped.	DUMP:UT-FPC 5E15 and later
Requests that the foundation peripheral controller (FPC) be exercised in an interactive mode.	EX:FPC

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	5E15 and later
Requests that an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.	EXC:UT-FPC 5E15 and later
Inhibits the hardware error checks on the specified foundation peripheral controller (FPC).	INH:HDW-FPC 5E15 and later
Requests that a value be loaded into the memory of the specified foundation peripheral controller (FPC).	LOAD:UT-FPC 5E15 and later
Requests that the specified foundation peripheral controller (FPC) be removed from service.	RMV:FPC 5E15 and later
Requests that the specified foundation peripheral controller (FPC) be restored to service.	RST:FPC 5E15 and later
Requests that actions on the specified foundation peripheral controller (FPC) be stopped.	STP:FPC 5E15 and later
Requests a switch of the foundation peripheral controller (FPC) unit.	SW:FPC 5E15 and later

97. GATED DIODE CROSSPOINT

97.1 Gated Diode Crosspoint Access

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the gated diode crosspoint access (GDXACC) be aborted at the specified location.	ABT:GDXACC 5E15 and later
Allows hardware error checks to be performed on the specified gated diode crosspoint access (GDXACC) circuit.	ALW:HDW-GDXACC 5E15 and later
Requests that a gated diode crosspoint access (GDXACC) circuit be removed and diagnosed.	DGN:GDXACC 5E15 and later
Requests interactive diagnostic (exercises) of the gated diode crosspoint access (GDXACC).	EX:GDXACC 5E15 and later
Inhibits the hardware error checks performed on the specified gated diode crosspoint access (GDXACC) circuit.	INH:HDW-GDXACC 5E15 and later
Requests that a GDX access (GDXACC) be removed from service.	RMV:GDXACC 5E15 and later
Requests that a gated diode crosspoint access (GDXACC) service group in a line unit be restored to service.	RST:GDXACC 5E15 and later
Requests that actions be stopped on the gated diode crosspoint access (GDXACC) at the specified location.	STP:GDXACC 5E15 and later

97.2 Gated Diode Crosspoint Compensator

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the gated diode crosspoint compensator (GDXC) at the specified location be aborted.	ABT:GDXC 5E15 and later
Requests that a gated diode crosspoint compensator (GDXC) circuit be removed and diagnosed.	DGN:GDXC 5E15 and later
Requests interactive diagnostics (exercises) of the gated diode crosspoint compensator (GDXC).	EX:GDXC 5E15 and later
Inhibits the hardware error checks performed on the specified gated diode crosspoint compensator (GDXC) circuit.	INH:HDW-GDXC 5E15 and later
Requests that a gated diode crosspoint compensator (GDXC) be removed from service.	RMV:GDXC 5E15 and later
Requests that a gated diode crosspoint compensator (GDXC) board in a metallic service unit (MSU) be restored to service.	RST:GDXC 5E15 and later
Requests that actions be stopped on the gated diode crosspoint compensator (GDXC) at the specified location.	STP:GDXC 5E15 and later

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97.3 Gated Diode Crosspoint Control

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the gated diode crosspoint control (GDXCON) be aborted at the specified location.	ABT:GDXCON 5E15 and later
Allows hardware error checks to be performed on the specified gated diode crosspoint control (GDXCON).	ALW:HDW-GDXCON 5E15 and later
Requests that a gated diode crosspoint control (GDXCON) circuit be removed and diagnosed.	DGN:GDXCON 5E15 and later
Requests interactive diagnostic (exercises) of the gated diode crosspoint control (GDXCON).	EX:GDXCON 5E15 and later
Inhibits the hardware error checks performed on the specified gated diode crosspoint control (GDXCON) circuit.	INH:HDW-GDXCON 5E15 and later
Requests that a gated diode crosspoint control (GDXCON) be removed from service.	RMV:GDXCON 5E15 and later
Requests that a gated diode crosspoint control (GDXCON) board in a line unit be restored to service as the active controller or to standby.	RST:GDXCON 5E15 and later
Requests that actions be stopped on the gated diode crosspoint control (GDXCON) at the specified location.	STP:GDXCON 5E15 and later
Requests that a gated diode crosspoint controller (GDXCON) be switched from the standby to the active state.	SW:GDXCON 5E15 and later

97.4 Gated Diode Crosspoint Grid

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the gated diode crosspoint (GDX) grid be aborted at the specified location.	ABT:GRID 5E15 and later
Allows hardware error checks to be performed on the specified gated diode crosspoint grid (GRID).	ALW:HDW-GRID 5E15 and later
Requests that a gated diode crosspoint grid (GRID) in a line unit concentrator be removed from service and diagnosed.	DGN:GRID 5E15 and later
Requests interactive diagnostic (exercises) of the gated diode crosspoint grid (GRID).	EX:GRID 5E15 and later
Inhibits the hardware error checks performed on the specified gated diode crosspoint grid (GRID).	INH:HDW-GRID 5E15 and later
Inhibits the hardware error checks performed on the specified line unit model 2 (LU2) or line unit model 3 (LU3) grid board.	INH:HDW-GRIDBD 5E15 and later
Requests that a gated diode crosspoint grid (GRID) be removed from service.	RMV:GRID 5E15 and later
Requests that a gated diode crosspoint grid (GRID) in a line unit concentrator be restored to service.	RST:GRID 5E15 and later
Requests that actions stop on the gated diode crosspoint (GDX) grid at the specified location.	STP:GRID 5E15 and later
Requests the fabric exerciser to be run on a line unit grid.	TST:GRID 5E15 and later

98. GENERIC ACCESS PROGRAM

Topic/Purpose	Message ID/ Software Release Range
Causes the administrative module (AM) generic access package (GRASP) transfer trace to start monitoring the flow of execution, as previously set up with an INIT:UMEM message.	ALW:UMEM 5E15 and later
Causes the definition of an administrative module (AM) generic access package (GRASP) transfer trace to be removed.	CLR:UMEM 5E15 and later
Requests that data be copied from virtual addresses in main memory to the administrative module (AM) generic access package (GRASP) utility variables.	COPY:PID 5E15 and later

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Requests that data be copied from virtual addresses in main memory to administrative module (AM) generic access package (GRASP) utility variables as an immediate action.	COPY:UID 5E15 and later
Dumps the contents of the specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified process identifier.	DUMP:PID 5E15 and later
Dumps the contents of a specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified utility identifier.	DUMP:UID 5E15 and later
Overrides the administrative module (AM) default generic access package (GRASP) dynamic real-time limit with a specified limit until the specified clock time or the end of the debugging session, whichever occurs first.	IN:DTIME 5E15 and later
Causes the generic access package (GRASP) transfer trace to stop monitoring the flow of execution.	INH:UMEM 5E15 and later
Requests that the administration module generic access package (GRASP) be informed that a working utility circuit has been installed so that GRASP will again accept trace and hardware breakpoint definitions, reset the utility circuit if an error occurred, or end the GRASP session.	INIT:UC 5E15 and later
Specifies the definition of an administrative module (AM) generic access package (GRASP) trace to be set up.	INIT:UMEM 5E15 and later
Causes the contents of the administrative module (AM) generic access package (GRASP) trace to be dumped to a file.	OP:UMEM 5E15 and later
Starts a list of administrative module (AM) generic access package (GRASP) input messages that are to be performed when an external event breakpoint condition exists.	WHEN:COND 5E15 and later
Requests that a list of administrative module (AM) generic access package (GRASP) messages be executed when a specified breakpoint condition exists.	WHEN:PID 5E15 and later
Requests that a list of administrative module (AM) generic access package (GRASP) messages that are to be performed when a specified breakpoint condition exists be triggered.	WHEN:UID 5E15 and later

99. GLOBAL DIGITAL SERVICES FUNCTION

Topic/Purpose	**Message ID/ Software Release Range**
Aborts actions on the global digital services function (GDSF).	ABT:GDSF 5E15 and later
Allows maintenance hardware checks in a global digital services function (GDSF) circuit to occur.	ALW:HDW-GDSF 5E15 and later
Diagnoses a global digital services function (GDSF) circuit to determine whether it is in satisfactory working order.	DGN:GDSF 5E15 and later
Interactively diagnoses the global digital services function (GDSF) circuit.	EX:GDSF 5E15 and later
Checks hardware in a global digital services function (GDSF) circuit.	INH:HDW-GDSF 5E15 and later
Requests that a global digital services function (GDSF) circuit be removed from service.	RMV:GDSF 5E15 and later
Conditionally or unconditionally restores a global digital services function (GDSF) circuit to service.	RST:GDSF 5E15 and later
Requests that actions on the global digital services function (GDSF) circuit be stopped.	STP:GDSF 5E15 and later

100. GLOBAL DIGITAL SERVICE UNIT COMMON BOARD

Topic/Purpose	**Message ID/ Software Release Range**
Requests that actions on the global digital service unit common (GDSUCOM) board be aborted at the specified location.	ABT:GDSUCOM 5E15 and later
Allows hardware error checks to be performed on the specified global digital service unit (DSU) common (GDSUCOM) board.	ALW:HDW-GDSUCOM 5E15 and later
Requests that a global digital service unit common (GDSUCOM) board be diagnosed to determine whether it is in satisfactory working order.	DGN:GDSUCOM 5E15 and later
Requests interactive diagnostics (exercises) of the global digital service circuit unit common (GDSUCOM) board.	EX:GDSUCOM 5E15 and later

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Inhibits the hardware error checks performed on the specified global digital service unit common (GDSUCOM) board.	INH:HDW-GDSUCOM 5E15 and later
Requests that a global DSU common (GDSUCOM) board be removed from service.	RMV:GDSUCOM 5E15 and later
Requests that a global digital service unit common (GDSUCOM) board be restored to service.	RST:GDSUCOM 5E15 and later
Requests that actions on the global digital service unit common (GDSUCOM) board at the specified location be stopped.	STP:GDSUCOM 5E15 and later

101. GLOBAL SWITCHING MODULE

Topic/Purpose	**Message ID/ Software Release Range**
Requests an initialization of named table(s) in the selected common channel signaling (CCS) global switching module (GSM).	INIT:SCCP 5E15 and later
Requests the linkset or combined linkset servicing each accessible destination point code (DPC) for the common channel signaling (CCS) global switching module (GSM).	OP:CCS-ACDPC 5E15 and later
Requests the number of currently active (in service) member(s) in each signaling linkset on a common channel signaling (CCS) global switching module (GSM).	OP:CCS-ACTLK 5E15 and later
Requests status information of all members of one or more combined link sets (CLSs) on a given common channel signaling (CCS) global switching module (GSM).	OP:CCS-CLS 5E15 and later
Requests a report of the destination point codes (DPCs) currently served by a specified SS7 linkset or combined linkset on a common channel signaling (CCS) global switching module (GSM).	OP:CCS-DPCLS 5E15 and later
Requests common channel signaling link (CCSLK) and internal CCS message transport (CMT) summary status on one/more global switching modules (GSMs).	OP:CCS-GSM 5E15 and later
Generates the report of the combined link set of which a given link set is a member.	OP:CCS-LSCLS 5E15 and later
Requests the monitoring action to be turned on, turned off, or the status of links and/or members and/or flow control management (FCM) and/or traffic flow management (TFM) for specified monitoring masks (or a combination thereof).	OP:CCS-MON 5E16(1) and later
Requests status information for one or more signaling connection control part (SCCP) subsystem(s) at one or more destination point codes (DPCs).	OP:CCS-SCMG 5E15 and later
Requests a display of the normal and current signaling link selection (SLS) distributions for all links currently carrying traffic to the specified destination point code (DPC) or a display of the normal and current SLS distribution of a link for a specific linkset (LS) or combined linkset (CLS) specified.	OP:CCS-SLS 5E15 and later
Requests that the status of the global switching module (GSM) escalation feature be queried.	OP:GSME 5E19(1) and later
Requests the status of one or more common channel signaling (CCS) links.	OP:ST-CCSLK 5E15 and later
Requests status for general quad-link packet switch protocol handler links (GQPHLNKs) associated with a particular global switching module (GSM).	OP:ST-GQPHLNK 5E16(2) and later
Requests status for general quad-link packet switch protocol handler (GQPH) QPIPEs on a HOST global switching module (GSM).	OP:ST-GQPHPIPE 5E16(2) and later
Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs).	OP:ST-GSMNET 5E15 and later
Requests status of the common channel signaling (CCS) message delivery (MD) network.	OP:ST-MD 5E15 and later
Requests status of the CCS message transport (CMT) connectivity between a specified non-global switching module (NGSM) and one/more of its associated global switching modules (GSM).	OP:ST-NGSMNET 5E15 and later
Removes a common channel signaling (CCS) link(s) from service by deactivating, inhibiting, or blocking the link(s).	RMV:CCSLK-A 5E15 - 5E19(1)
Removes a common channel signaling (CCS) link(s) from service by deactivating, inhibiting, or blocking the link(s).	RMV:CCSLK-B 5E20(1) and later
Removes a common channel signaling (CCS) intra-global switching module (GSM) message delivery (MD) path internal to the GSM.	RMV:MD 5E15 and later

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Restores service to a common channel signaling (CCS) link(s) by removing the deactivating, inhibiting, or blocking status on that link(s).	RST:CCSLK 5E15 and later
Restores the intra-global switching module (GSM) common channel signal (CCS) message delivery (MD) path.	RST:MD 5E15 and later
Schedules a link test to be run on a signaling link.	TST:CCSLK 5E15 and later
Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs).	TST:GSMNET 5E15 and later

102. GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS

Topic/Purpose	Message ID/ Software Release Range
Requests that a global system for mobile communications (GSM) mobile application part (MAP) test query message be sent to the home location register (HLR).	TST:MAPTQ-A 5E16(2) only
Requests that a global system for mobile communications (GSM) mobile application part (MAP) test query message be sent to the home location register (HLR).	TST:MAPTQ-B 5E18(1) and later

103. HARD-TO-REACH

Topic/Purpose	Message ID/ Software Release Range
Requests clearance of manual hard-to-reach (MHTR) destinations.	CLR:MHTR 5E16(2) and later
Requests that all destinations assigned to the hard-to-reach (HTR) list be listed.	OP:HTR 5E16(2) and later

104. HARDWARE CHECKS

Topic/Purpose	Message ID/ Software Release Range
Requests that hardware error checks be allowed to be performed on the specified control data interface (CDI).	ALW:HDW-CDI 5E15 and later
Allows level 2 and level 3 hardware checks errors to be performed on one or all communication links (CLNKs).	ALW:HDW-CLNK 5E15 and later
Allows hardware error checks to be performed on all communication module (CM) units.	ALW:HDW-CM 5E15 and later
Allows hardware error checks to be performed on the specified *SLC®* 96 digital carrier line unit (DCLU).	ALW:HDW-DCLU 5E15 and later
Allows hardware error checks to be performed on the specified directly connected test unit common board (DCTUCOM).	ALW:HDW-DCTUCOM 5E15 and later
Allows hardware error checks to be performed on the specified digital facility interface (DFI).	ALW:HDW-DFI 5E15 and later
Allows hardware checks to occur on a remote integrated services line unit (RISLU) host/remote digital facility interface (DFIH) circuit pair.	ALW:HDW-DFIH 5E15 and later
Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).	ALW:HDW-DNUSCC 5E15 and later
Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).	ALW:HDW-DNUSCD 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified foundation peripheral controller (FPC).	ALW:HDW-FPC 5E15 and later
Allows maintenance hardware checks in a global digital services function (GDSF) circuit to occur.	ALW:HDW-GDSF 5E15 and later
Allows hardware error checks to be performed on the specified global digital service unit (DSU) common (GDSUCOM) board.	ALW:HDW-GDSUCOM 5E15 and later
Allows hardware error checks to be performed on the specified gated diode crosspoint access (GDXACC) circuit.	ALW:HDW-GDXACC 5E15 and later
Allows hardware error checks to be performed on the specified gated diode crosspoint control	ALW:HDW-GDXCON

(GDXCON).	5E15 and later
Allows hardware error checks to be performed on the specified gated diode crosspoint grid (GRID).	ALW:HDW-GRID 5E15 and later
Allows hardware error checks to be performed on the specified line unit model 2 (LU2) or line unit model 3 (LU3) grid board.	ALW:HDW-GRIDBD 5E15 and later
Allows hardware error checks to be performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.	ALW:HDW-HDFI 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) service group circuit.	ALW:HDW-IDCU 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) facility (IFAC) circuit.	ALW:HDW-IFAC 5E15 and later
Allows hardware checks on an integrated services line unit (ISLU) common controller (CC) or common data (CD).	ALW:HDW-ISLU 5E15 and later
Allows listing of ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).	ALW:HDW-ISLUHLSC 5E15 and later
Allows listing of interrupts in an integrated services line unit (ISLU) metallic access network (MAN).	ALW:HDW-ISLUMAN 5E15 and later
Allows listing of error sources in an integrated services line unit (ISLU) ringing generator (RG).	ALW:HDW-ISLURG 5E15 and later
Allows hardware checks in an integrated services test function (ISTF) unit to occur.	ALW:HDW-ISTF 5E15 and later
Allows maintenance hardware checks in a local digital service function (LDSF) circuit to occur.	ALW:HDW-LDSF 5E15 and later
Allows maintenance hardware checks in a local digital service unit - model 2 (LDSU2) board to occur.	ALW:HDW-LDSU 5E15 and later
Allows hardware error checks to be performed on the specified local digital service unit common (LDSUCOM) board.	ALW:HDW-LDSUCOM 5E15 and later
Allows hardware error checks to be performed on the specified line unit channel (LUCHAN).	ALW:HDW-LUCHAN 5E15 and later
Allows hardware error checks to be performed on the specified line unit common control (LUCOMC).	ALW:HDW-LUCOMC 5E15 and later
Allows hardware error checks to be performed on the specified line unit high level service circuit (LUHLSC).	ALW:HDW-LUHLSC 5E15 and later
Requests that a hardware check be allowed in a module controller/time-slot interchange unit (MCTSI).	ALW:HDW-MCTSI-A 5E15 - 5E16(1)
Requests that a hardware check be allowed in a module controller/time-slot interchange unit (MCTSI).	ALW:HDW-MCTSI-B 5E16(2) and later
Requests that hardware error checks be allowed to be performed on the specified module message processor (MMP).	ALW:HDW-MMP 5E15 and later
Allows hardware checks (errors) on a message switch control unit (MSCU).	ALW:HDW-MSCU 5E15 and later
Allows hardware error checks to be performed on the specified metallic service unit common (MSUCOM) board.	ALW:HDW-MSUCOM 5E15 and later
Requests that hardware error checks be allowed to be performed on a specified network clock reference (NCREF).	ALW:HDW-NCREF 5E15 and later
Requests that hardware checks be allowed on an optical facility interface (OFI).	ALW:HDW-OFI 5E16(1) and later
Allows hardware error checks to be performed on the specified office network and control complex (ONTC).	ALW:HDW-ONTC 5E15 and later
Requests that hardware checks be allowed on a peripheral control and timing (PCT) line and trunk unit link.	ALW:HDW-PLTLK 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified pump peripheral controller (PPC).	ALW:HDW-PPC 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified quad-link packet switch gateway processor (QGP).	ALW:HDW-QGP 5E15 and later
Allows hardware checks in a recorded announcement function (RAF) unit to occur.	ALW:HDW-RAF 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified remote communication link (RCL) circuit between inter-remote switching module (RSM)	ALW:HDW-RCL 5E15 and later

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communication link digital facilities interface (CDFI) circuits.	
Allows hardware error checks to be performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level.	ALW:HDW-RCLK 5E15 and later
Allows hardware error checks to be performed on the specified remote clock oscillator (RCOSC) circuit.	ALW:HDW-RCOSC 5E15 and later
Allows hardware error checks to be performed on the specified remote clock oscillator cross couple (RCOXC) link.	ALW:HDW-RCOXC 5E15 and later
Allows hardware error checks to be performed on the specified remote clock reference (RCREF).	ALW:HDW-RCREF 5E15 and later
Allows hardware error checks to be performed on the specified remote clock cross couple (RCXC) circuit.	ALW:HDW-RCXC 5E15 and later
Allows hardware error checks to be performed on the specified remote switching module (RSM) digital facilities interface (RDFI) circuit.	ALW:HDW-RDFI 5E15 and later
Allows hardware error checks to be performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.	ALW:HDW-RLI 5E15 and later
Allows hardware checks to occur on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).	ALW:HDW-RRCLK 5E15 and later
Allows hardware error checks to be performed on the specified revertive pulsing transceiver (RVPT).	ALW:HDW-RVPT 5E15 and later
Allows hardware checks in a service announcement system (SAS) unit to occur.	ALW:HDW-SAS 5E15 and later
Allows hardware error checks to be performed on the specified *SLC®* 96 digital facility interface (SDFI).	ALW:HDW-SDFI 5E15 and later
Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).	ALW:HDW-SFI 5E15 and later
Allows all hardware error checks in one or more switching modules (SMs).	ALW:HDW-SM 5E15 and later
Allows hardware error checks to be performed on the specified test and access circuit (TAC).	ALW:HDW-TAC 5E15 and later
Allows hardware error checks to be performed on the specified trunk equipment number (TEN).	ALW:HDW-TEN 5E15 and later
Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).	ALW:HDW-TMUX 5E15 and later
Allows hardware error checks to be performed on the specified transmission test facility common (TTFCOM) circuit pack.	ALW:HDW-TTFCOM 5E15 and later
Allows hardware error checks to be performed on the specified universal conference (UCONF) circuit board.	ALW:HDW-UCONF 5E15 and later
Allows hardware error checks to be performed on the specified universal tone decoder (UTD).	ALW:HDW-UTD 5E15 and later
Allows hardware error checks to be performed on the specified universal tone generator (UTG).	ALW:HDW-UTG 5E15 and later
Requests that the system status register be set such that a control unit (CU) switch can be implemented as a normal fault recovery procedure, thereby allowing a switch to the standby administrative module (AM) control unit when a fault occurs in the active AM control unit.	ALW:HDWCHK 5E15 and later
Requests that the printing of a line removal message on the ROP be allowed when a line unit, dial tone first (DTF) coin, or integrated services line unit (ISLU) Z-card (analog line) is placed out-of-service (OOS) maintenance (MTCE) high-and-wet (HW) ground (GRD).	ALW:HWGRD 5E15 and later
Inhibits maintenance interrupts on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.	INH:HDW-CDFI 5E15 and later
Inhibits the hardware error checks performed on the specified control data interface (CDI).	INH:HDW-CDI 5E15 and later
Inhibits all hardware error checks on all communication module (CM) units.	INH:HDW-CM 5E15 and later
Inhibits the hardware error checks performed on the specified *SLC®* 96 digital carrier line unit (DCLU).	INH:HDW-DCLU 5E15 and later
Inhibits the hardware error checks performed on the specified directly connected test unit common board (DCTUCOM).	INH:HDW-DCTUCOM 5E15 and later

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Inhibits the hardware error checks performed on the specified digital facility interface (DFI).	INH:HDW-DFI 5E15 and later
Inhibits hardware checks in a remote integrated services line unit (RISLU) host/remote digital facility interface circuit (DFIH) pair.	INH:HDW-DFIH 5E15 and later
Inhibits the hardware error checks performed on the specified distributing frame test access circuit (DFTAC).	INH:HDW-DFTAC 5E15 and later
Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).	INH:HDW-DNUSCC 5E15 and later
Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).	INH:HDW-DNUSCD 5E15 and later
Inhibits the hardware error checks on the specified foundation peripheral controller (FPC).	INH:HDW-FPC 5E15 and later
Checks hardware in a global digital services function (GDSF) circuit.	INH:HDW-GDSF 5E15 and later
Inhibits the hardware error checks performed on the specified global digital service unit common (GDSUCOM) board.	INH:HDW-GDSUCOM 5E15 and later
Inhibits the hardware error checks performed on the specified gated diode crosspoint access (GDXACC) circuit.	INH:HDW-GDXACC 5E15 and later
Inhibits the hardware error checks performed on the specified gated diode crosspoint compensator (GDXC) circuit.	INH:HDW-GDXC 5E15 and later
Inhibits the hardware error checks performed on the specified gated diode crosspoint control (GDXCON) circuit.	INH:HDW-GDXCON 5E15 and later
Inhibits the hardware error checks performed on the specified gated diode crosspoint grid (GRID).	INH:HDW-GRID 5E15 and later
Inhibits the hardware error checks performed on the specified line unit model 2 (LU2) or line unit model 3 (LU3) grid board.	INH:HDW-GRIDBD 5E15 and later
Inhibits the hardware error checks performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.	INH:HDW-HDFI 5E15 and later
Requests that interrupts in an integrated digital carrier unit (IDCU) service group circuit be inhibited.	INH:HDW-IDCU 5E15 and later
Requests that interrupts in an integrated digital carrier unit (IDCU) facility (IFAC) circuit be inhibited.	INH:HDW-IFAC 5E15 and later
Inhibits ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).	INH:HDW-ISLUHLSC 5E15 and later
Inhibits interrupts in an integrated services line unit (ISLU) metallic access network (MAN).	INH:HDW-ISLUMAN 5E15 and later
Inhibits error sources in an integrated services line unit (ISLU) ringing generator (RG).	INH:HDW-ISLURG 5E15 and later
Inhibits hardware checks in an integrated services test function (ISTF) unit.	INH:HDW-ISTF 5E15 and later
Checks hardware in a local digital service function (LDSF) circuit.	INH:HDW-LDSF 5E15 and later
Checks hardware in a local digital service unit - model 2 (LDSU2) board.	INH:HDW-LDSU 5E15 and later
Inhibits the hardware error checks performed on the specified local digital service unit common (LDSUCOM) board.	INH:HDW-LDSUCOM 5E15 and later
Inhibits the hardware error checks performed on the specified line unit channel (LUCHAN).	INH:HDW-LUCHAN 5E15 and later
Inhibits the hardware error checks performed on the specified line unit common control (LUCOMC).	INH:HDW-LUCOMC 5E15 and later
Inhibits the hardware error checks performed on the specified line unit high service circuit (LUHLSC).	INH:HDW-LUHLSC 5E15 and later
Requests that a hardware check be inhibited in a module controller/time-slot interchange unit (MCTSI).	INH:HDW-MCTSI-A 5E15 - 5E16(1)
Requests that a hardware check be inhibited in a module controller/time-slot interchange unit (MCTSI).	INH:HDW-MCTSI-B 5E16(2) and later
Requests that hardware error checks on the specified module message processor (MMP) be inhibited.	INH:HDW-MMP 5E15 and later
Inhibits hardware checks (errors) on a message switch control unit (MSCU).	INH:HDW-MSCU

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	5E9(1) and later
Inhibits the hardware error checks performed on the specified metallic service unit common (MSUCOM) board.	INH:HDW-MSUCOM 5E15 and later
Requests that hardware error checks be inhibited on the specified network clock reference (NCREF).	INH:HDW-NCREF 5E15 and later
Inhibits the hardware error checks from being performed on the specified office network and timing complex (ONTC).	INH:HDW-ONTC 5E15 and later
Requests that hardware checks be inhibited on a peripheral control and timing (PCT) line and trunk unit link.	INH:HDW-PLTLK 5E15 and later
Inhibits the hardware error checks performed on the specified pump peripheral controller (PPC).	INH:HDW-PPC 5E15 and later
Requests that the hardware checks on the specified quad-link packet switch gateway processor (QGP) be inhibited.	INH:HDW-QGP 5E15 and later
Inhibits hardware checks in a recorded announcement function (RAF) unit.	INH:HDW-RAF 5E15 and later
Requests that the hardware error checks performed on the specified remote communication link (RCL) be inhibited.	INH:HDW-RCL 5E15 and later
Inhibits hardware error checks from being performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level.	INH:HDW-RCLK 5E15 and later
Inhibits hardware error checks from being performed on the specified remote clock oscillator (RCOSC) circuit.	INH:HDW-RCOSC 5E15 and later
Inhibits hardware error checks from being performed on the specified remote clock oscillator cross couple (RCOXC) circuit.	INH:HDW-RCOXC 5E15 and later
Inhibits hardware error checks from being performed on the specified remote clock reference (RCREF).	INH:HDW-RCREF 5E15 and later
Inhibits hardware error checks from being performed on the specified remote clock cross couple (RCXC) circuit.	INH:HDW-RCXC 5E15 and later
Inhibits the hardware error checks performed on the specified remote switching module (RSM) digital facilities interface (RDFI) circuit.	INH:HDW-RDFI 5E15 and later
Inhibits the hardware error checks performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.	INH:HDW-RLI 5E15 and later
Inhibits hardware checks in a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).	INH:HDW-RRCLK 5E15 and later
Inhibits the hardware error checks performed on the specified revertive pulsing transceiver (RVPT).	INH:HDW-RVPT 5E15 and later
Inhibits hardware checks in a service announcement system (SAS) unit.	INH:HDW-SAS 5E15 and later
Inhibits the hardware error checks performed on the specified *SLC*® 96 digital facility interface (SDFI).	INH:HDW-SDFI 5E15 and later
Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).	INH:HDW-SFI 5E15 and later
Requests that all hardware error checks be inhibited in one or more switching modules (SMs).	INH:HDW-SM 5E15 and later
Inhibits the hardware error checks performed on the specified test and access circuit (TAC).	INH:HDW-TAC 5E15 and later
Inhibits the hardware error checks performed on the specified trunk equipment number (TEN) circuit.	INH:HDW-TEN 5E15 and later
Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).	INH:HDW-TMUX 5E15 and later
Inhibits the hardware error checks performed on the specified transmission test facility common (TTFCOM) circuit pack.	INH:HDW-TTFCOM 5E15 and later
Inhibits the hardware error checks performed on the specified universal conference (UCONF) circuit board.	INH:HDW-UCONF 5E15 and later
Inhibits the hardware error checks performed on the specified universal tone decoder (UTD).	INH:HDW-UTD 5E15 and later
Inhibits the hardware error checks performed on the specified universal tone generator (UTG).	INH:HDW-UTG 5E15 and later
Request that the system status register be set such that a control unit (CU) switch is not	INH:HDWCHK

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implemented as a normal fault recovery action.	5E15 and later
Requests that the printing of a line removal message on the ROP be inhibited when a line unit, dial tone first (DTF) coin, or integrated services line unit (ISLU) Z-card (analog line) is placed out-of-service (OOS) maintenance (MTCE) high-and-wet (HW) ground (GRD).	INH:HWGRD 5E15 and later
Requests a printout of the hardware check status of the specified unit or set of units.	OP:HDWCHK 5E15 and later

105. HIGH-SPEED SYNCHRONOUS DATA LINK

Topic/Purpose	Message ID/ Software Release Range
Requests specific information about a high speed synchronous data link (HSD).	OP:HSD 5E15 and later
Requests specific information about a high speed synchronous data link controller (HSDC).	OP:HSDC 5E15 and later
Requests that the specified high-speed synchronous data link (HSD) subdevice be removed from service.	RMV:HSD 5E15 and later
Requests that the specified high-speed synchronous data link (HSD) subdevice be restored to service.	RST:HSD 5E15 and later

105.1 High-Speed Synchronous Data Link Controller

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified high-speed synchronous data link controller (HSDC).	DGN:HSDC 5E15 and later
Exercises a high-speed synchronous datalink controller (HSDC) in an interactive diagnostic mode.	EX:HSDC 5E15 and later
Requests that the specified high-speed synchronous data link controller (HSDC) be removed from service.	RMV:HSDC 5E15 and later
Requests that a high-speed synchronous data link (HSD) controller (HSDC) be restored to service.	RST:HSDC 5E15 and later

106. HIGH PRIORITY REMOTE INTERFACE

Topic/Purpose	Message ID/ Software Release Range
To deactivate the high priority terminal feature.	CLR:HPRI 5E15 and later
To determine the status of high priority terminal feature.	OP:HPRI 5E15 and later
To requests that a terminal be set up as a high priority terminal.	SET:HPRI 5E15 and later

107. INHIBITS

Topic/Purpose	Message ID/ Software Release Range
Requests a list of all inhibited administrative module error conditions, including ERRINT, ERRSRC, HDWCHK, and SFTCHK.	OP:ERRCHK 5E15 and later

108. IN-PROCESS CALL TRACING

Topic/Purpose	Message ID/ Software Release Range
Requests an in-progress call trace (IPCT) by using either the directory number (DN), the multi-line hunt group (MLHG), and member number, the trunk group and member number	TRC:IPCT 5E15 and later

(TKGMN), the process ID (PID), or the origination point code, destination point code, and raw call instance code (OPCDPC) of the party to be traced.	

109. INPUT/OUTPUT PROCESSOR

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified input/output processor (IOP).	DGN:IOP 5E15 and later
Exercises an input/output processor (IOP) in an interactive diagnostic mode.	EX:IOP 5E15 and later
Requests specific information about an IOP member number.	OP:IOP 5E15 and later
Requests that the specified input/output processor (IOP) and any associated peripheral controllers (PCs) be removed from service.	RMV:IOP 5E15 and later
Requests that an input/output processor (IOP) be restored to service.	RST:IOP 5E15 and later

109.1 Input/Output Processor Driver

Topic/Purpose	Message ID/ Software Release Range
Requests that option setting be allowed in the input/output processor (IOP) driver to suppress IOP driver messages.	CLR:IODRV 5E15 and later
Release a file from the input/output drivers chache memory.	CLR:IOMEM 5E15 and later
Reports the current options set for the administrative module (AM) input/output processor (IOP) driver messages.	OP:IODRV 5E15 and later
Requests that the input/output processor (IOP) driver (IODRV) print messages.	SET:IODRV 5E15 and later

110. INPUT MESSAGE CATALOG

Topic/Purpose	Message ID/ Software Release Range
Invalidates the memory segments of the old input message catalog, forcing the new one to be loaded into the main memory.	CLR:IMCAT 5E15 and later

111. INTEGRATED DIGITAL CARRIER UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests that a specified action on an integrated digital carrier unit (IDCU) service group be aborted.	ABT:IDCU 5E15 and later
Requests that a specified action on an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be aborted.	ABT:IDCUELI 5E15 and later
Requests that a specified action on an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be aborted.	ABT:IDCUPIDB 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.	ABT:RMV-RT 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.	ABT:RST-RT 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) service group circuit.	ALW:HDW-IDCU 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit.	ALW:HDW-IDCUELI 5E15 and later
Requests that the printing of remote terminal (RT) report messages at the Master Control	ALW:RT-REPT

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Center (MCC) and the Switching Control Center (SCC) be allowed.	5E15 and later
Requests that equipment numbers relating to remote terminals (RT) that interface to an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S) be converted.	CNVT:RT 5E15 and later
Requests that an integrated digital carrier unit (IDCU) service group circuit be diagnosed.	DGN:IDCU 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) be dumped.	DUMP:UT-IDCU 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) loop side interface (LSI) be dumped.	DUMP:UT-IDCULSI 5E15 and later
Requests that an integrated digital carrier unit (IDCU) service group circuit be interactively diagnosed.	EX:IDCU 5E15 and later
Requests the provisioning of a TR303 remote terminal (RT) on an integrated digital carrier unit (IDCU) or digital network unit SONET (DNU-S).	EXC:RT-PROV 5E15 and later
Requests that interrupts in an integrated digital carrier unit (IDCU) service group circuit be inhibited.	INH:HDW-IDCU 5E15 and later
Requests that interrupts in an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be inhibited.	INH:HDW-IDCUELI 5E15 and later
Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be inhibited.	INH:RT-REPT 5E15 and later
Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU).	LOAD:UT-IDCU 5E15 and later
Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU) loop side interface (LSI).	LOAD:UT-IDCULSI 5E15 and later
Requests a status message of the provisionable elements of a remote terminal (RT) terminating on an IDCU or DNUS.	OP:RT-PROV 5E15 and later
Requests the current status of the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC).	OP:RT-REPT 5E15 and later
Requests that an integrated digital carrier unit (IDCU) service group circuit be removed from service.	RMV:IDCU 5E15 and later
Requests that an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be removed from service unconditionally, by preempting the current user.	RMV:IDCUELI 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:IDCUEOC 5E15 and later
Requests that an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be removed from service.	RMV:IDCUPIDB 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:IDCUTMC 5E15 and later
Requests that an integrated digital carrier unit (IDCU) service group circuit be restored to service either conditionally or unconditionally.	RST:IDCU 5E15 and later
Requests that an integrated digital circuit unit (IDCU) electrical line interface (ELI) circuit be restored to service.	RST:IDCUELI 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.	RST:IDCUEOC 5E15 and later
Requests that an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be restored to service.	RST:IDCUPIDB 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.	RST:IDCUTMC 5E15 and later
Requests that actions on an integrated digital carrier unit (IDCU) service group circuit be stopped.	STP:IDCU 5E15 and later
Requests that actions on an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be stopped.	STP:IDCUELI 5E15 and later
Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped.	STP:IDCUEOC 5E15 and later
Requests that actions on an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be stopped.	STP:IDCUPIDB 5E15 and later
Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit	STP:IDCUTMC

be stopped.	5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.	STP:RMV-RT 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.	STP:RST-RT 5E15 and later
Requests that the active and standby integrated digital carrier unit (IDCU) service group circuits be switched (interchanged).	SW:IDCU 5E15 and later
Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).	SW:IDCUEOC 5E15 and later
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).	SW:IDCUTMC 5E15 and later

112. INTEGRATED SERVICES DIGITAL NETWORK

Topic/Purpose	Message ID/ Software Release Range
Requests that the trapping and printing of the intergrated services digital network (ISDN) user part (ISUP) events be turned off.	CLR:ISUP 5E15 and later
Requests that a remote digital test access (RDTA) connection be set up between the port to be tested and the output facility where the protocol analysis equipment is located.	EXC:RDTA-A 5E15 only
Requests that a remote digital test access (RDTA) connection be set up between the port to be tested and the output facility where the protocol analysis equipment is located.	EXC:RDTA-B 5E16(1) and later
Requests a listing of the unassigned (UNA) lines, the integrated *SLC®* (ISLC) lines, and/or the integrated digital carrier unit (IDCU) lines within a specified range of directory numbers, *SLC®* line equipment numbers (SLENs), or IDCU line equipment numbers (ILENs).	OP:LISTOTO 5E15 and later
Requests a report of a specific remote digital test access (RDTA) session or a summary of all currently active RDTA sessions.	OP:RDTA-A 5E15 only
Requests a report of a specific remote digital test access (RDTA) session or a summary of all currently active RDTA sessions.	OP:RDTA-B 5E16(1) and later
Requests that the trapping and printing of intergrated services digital network (ISDN) user part (ISUP) events be turned on.	SET:ISUP 5E15 and later
Requests that a given active remote digital test access (RDTA) session be stopped.	STP:RDTA 5E15 and later
To update the timer value for a given active remote digital test access (RDTA) session and to change the duration period.	UPD:RDTA 5E15 and later
Requests verification of an active remote digital test access (RDTA) session for a specific port under test (PUT).	VFY:RDTA-A 5E15 only
Requests verification of an active remote digital test access (RDTA) session for a specific port under test (PUT).	VFY:RDTA-B 5E16(1) and later

113. INTEGRATED SERVICES LINE UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests that actions be aborted on an integrated services line unit common controller (ISLUCC).	ABT:ISLUCC 5E15 and later
Requests the actions be aborted on an integrated services line unit common data (ISLUCD).	ABT:ISLUCD 5E15 and later
Allows hardware checks on an integrated services line unit (ISLU) common controller (CC) or common data (CD).	ALW:HDW-ISLU 5E15 and later
Requests that hardware checks be allowed on an integrated services line unit common data (ISLUCD).	ALW:HDW-ISLUCD 5E15 and later
Requests that line card/ network termination (NT) mismatch detection be allowed on integrated services digital network (ISDN) lines equipped with U-cards.	ALW:MISMATCH 5E15 and later
Requests that diagnostics be executed on an integrated services line unit common controller (ISLUCC).	DGN:ISLUCC 5E15 and later
Requests that diagnostics be executed on an integrated services line unit common data (ISLUCD).	DGN:ISLUCD 5E15 and later

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Requests that diagnostics be executed on an integrated services line unit line card (ISLULC).	DGN:ISLULC 5E15 and later
Requests that diagnostics be executed on an integrated services line unit line group controller (ISLULGC).	DGN:ISLULGC 5E15 and later
Requests that an integrated services line unit common controller (ISLUCC) be exercised (diagnosed interactively).	EX:ISLUCC 5E15 and later
Requests that an integrated services line unit common data (ISLUCD) be exercised (diagnosed interactively).	EX:ISLUCD 5E15 and later
Requests that an integrated services line unit line card (ISLULC) be exercised (diagnosed interactively).	EX:ISLULC 5E15 and later
Requests an integrated services line unit line group controller (ISLULGC) be exercised (diagnosed interactively).	EX:ISLULGC 5E15 and later
Requests that hardware checks be inhibited on an integrated services line unit common controller (ISLUCC).	INH:HDW-ISLUCC 5E15 and later
Requests that hardware checks be inhibited on an integrated services line unit common data (ISLUCD).	INH:HDW-ISLUCD 5E15 and later
Requests that line card/ network termination (NT) mismatch detection be inhibited on integrated services digital network (ISDN) lines equipped with U-cards.	INH:MISMATCH 5E15 and later
The OP:HIST input request prints a range of the stored requests from the history buffer to the terminal.	OP:HIST 5E15 and later
Requests the printing of the most recently retained (logged) output reports and/or the event history from the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or from the specified packet switching unit protocol handler (PSUPH).	OP:HISTORY-A 5E15 - 5E17(1)
Format 1 requests the printing of the most recently retained (logged) output reports and/or the event history from the specified packet interface (PI) of the module controller time slot interchanger (MCTSI), or from the specified packet switching unit protocol handler (PSUPH).	OP:HISTORY-B 5E18(1) - 5E19(1)
Format 1 requests the printing of the most recently retained (logged) output reports and/or the event history from the specified packet interface (PI) of the module controller time slot interchanger (MCTSI), or from the specified packet switching unit protocol handler (PSUPH).	OP:HISTORY-C 5E20(1) and later
Requests that an integrated services line unit common data (ISLUCD) be removed from service either conditionally or unconditionally.	RMV:ISLUCD 5E15 and later
Requests that an integrated services line unit line card (ISLULC) be removed from service.	RMV:ISLULC 5E15 and later
Requests that an integrated services line unit line group controller (ISLULGC) be removed service.	RMV:ISLULGC 5E15 and later
Requests that an integrated services line unit common controller (ISLUCC) be restored to service.	RST:ISLUCC 5E15 and later
Requests that an integrated services line unit common data (ISLUCD) be restored to service.	RST:ISLUCD 5E15 and later
Requests that an integrated services line unit line card (ISLULC) be restored to service.	RST:ISLULC 5E15 and later
Requests that an integrated services line unit line group controller (ISLULGC) be restored to service.	RST:ISLULGC 5E15 and later
Requests the actions be stopped on an integrated services line unit common controller (ISLUCC).	STP:ISLUCC 5E15 and later
Requests the actions be stopped on an integrated services line unit common data (ISLUCD).	STP:ISLUCD 5E15 and later
Requests the actions be stopped on an integrated services line unit line card (ISLULC).	STP:ISLULC 5E15 and later
Requests the actions be stopped on an integrated services line unit line group controller (ISLULGC).	STP:ISLULGC 5E15 and later
Requests that the active/standby states of the integrated services line unit common controller (ISLUCC) be switched (interchanged).	SW:ISLUCC 5E15 and later
Requests that the active/standby states of the integrated services line unit common data (ISLUCD) be switched (interchanged).	SW:ISLUCD 5E15 and later

113.1 Integrated Services Line Unit Common Controller

Topic/Purpose	Message ID/ Software Release Range
Requests that hardware checks be allowed on an integrated services line unit common controller (ISLUCC).	ALW:HDW-ISLUCC 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified integrated services line unit common controller (ISLUCC) be dumped.	DUMP:UT-ISLUCC 5E15 and later
Requests that an unconditional call be made to a function using parameters in the specified integrated services line unit common controller (ISLUCC).	EXC:UT-ISLUCC 5E15 and later
Requests that a value be loaded into the memory of the specified integrated services line unit common controller (ISLUCC).	LOAD:UT-ISLUCC 5E15 and later
Requests that an integrated services line unit common controller (ISLUCC) be removed from service.	RMV:ISLUCC 5E15 and later

113.2 Integrated Services Line Unit High Level Service Circuit

Topic/Purpose	Message ID/ Software Release Range
Aborts a specified action on the integrated services line unit high level service circuit (ISLUHLSC).	ABT:ISLUHLSC 5E15 and later
Allows listing of ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).	ALW:HDW-ISLUHLSC 5E15 and later
Diagnoses an integrated services line unit high level service circuit (ISLUHLSC) to determine whether it is in satisfactory working order.	DGN:ISLUHLSC 5E15 and later
Interactively diagnoses the integrated services line unit high level service circuit (ISLUHLSC).	EX:ISLUHLSC 5E15 and later
Inhibits ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).	INH:HDW-ISLUHLSC 5E15 and later
Requests that an integrated services line unit high level service circuit (ISLUHLSC) be removed from service.	RMV:ISLUHLSC 5E15 and later
Requests that an integrated services line unit high level service circuit (ISLUHLSC) be restored to service.	RST:ISLUHLSC 5E15 and later
Requests that the specified action on the integrated services line unit high level service circuit (ISLUHLSC) be stopped.	STP:ISLUHLSC 5E15 and later

113.3 Integrated Services Line Unit Integrated Services Test Function

Topic/Purpose	Message ID/ Software Release Range
Aborts the specified actions on the integrated services test function (ISTF) unit.	ABT:ISTF 5E15 and later
Allows hardware checks in an integrated services test function (ISTF) unit to occur.	ALW:HDW-ISTF 5E15 and later
Diagnoses and removes an integrated service test function (ISTF) unit to determine whether it is in satisfactory working order.	DGN:ISTF 5E15 and later
Interactively diagnoses the integrated services test function (ISTF) unit.	EX:ISTF 5E15 and later
Inhibits hardware checks in an integrated services test function (ISTF) unit.	INH:HDW-ISTF 5E15 and later
Requests that an integrated services test function (ISTF) unit be removed from service.	RMV:ISTF 5E15 and later
Requests that an integrated services test function (ISTF) unit be restored to service.	RST:ISTF 5E15 and later
Requests that the specified actions on the integrated services test function (ISTF) unit be stopped.	STP:ISTF 5E15 and later

113.4 Integrated Services Line Unit Line Board

Topic/Purpose	Message ID/ Software Release

	Range
Request the actions be aborted on an integrated services line unit line board (ISLULBD).	ABT:ISLULBD 5E15 and later
Requests that diagnostics be executed on an integrated services line unit line board (ISLULBD).	DGN:ISLULBD 5E15 and later
Requests that an integrated services line unit line board (ISLULBD) be exercised (diagnosed interactively).	EX:ISLULBD 5E15 and later
Requests that an integrated services line unit line board (ISLULBD) be removed from service.	RMV:ISLULBD 5E15 and later
Requests that an integrated services line unit line board (ISLULBD) be restored to service.	RST:ISLULBD 5E15 and later
Requests the actions be stopped on an integrated services line unit line board (ISLULBD).	STP:ISLULBD 5E15 and later

113.5 Integrated Services Line Unit Line Circuit

Topic/Purpose	Message ID/ Software Release Range
Request the actions be aborted on an integrated services line unit line circuit (ISLULCKT).	ABT:ISLULCKT 5E15 and later
Requests that diagnostics be executed on an integrated services line unit line circuit (ISLULCKT).	DGN:ISLULCKT 5E15 and later
Requests that an integrated services line unit line circuit (ISLULCKT) be exercised (diagnosed interactively).	EX:ISLULCKT 5E15 and later
Requests that an integrated services line unit line circuit (ISLULCKT) be removed from service.	RMV:ISLULCKT 5E15 and later
Requests that an integrated services line unit line circuit (ISLULCKT) be restored to service.	RST:ISLULCKT 5E15 and later
Requests the actions be stopped on an integrated services line unit line circuit (ISLULCKT).	STP:ISLULCKT 5E15 and later

113.6 Integrated Services Line Unit Line Group

Topic/Purpose	Message ID/ Software Release Range
Requests actions be aborted on an integrated services line unit line group (ISLULG).	ABT:ISLULG 5E15 and later
Requests that diagnostics be executed on an integrated services line unit line group (ISLULG).	DGN:ISLULG 5E15 and later
Requests that an integrated services line unit line group (ISLULG) be removed service.	RMV:ISLULG 5E15 and later
Requests that an integrated services line unit line group (ISLULG) be restored to service.	RST:ISLULG 5E15 and later
Requests the actions be stopped on an integrated services line unit line group (ISLULG).	STP:ISLULG 5E15 and later

113.7 Integrated Services Line Unit Metallic Access Network

Topic/Purpose	Message ID/ Software Release Range
Request the actions be aborted on an integrated services line unit line card (ISLULC).	ABT:ISLULC 5E15 and later
Requests actions be aborted on an integrated services line unit line group controller (ISLULGC).	ABT:ISLULGC 5E15 and later
Aborts a specified action on the integrated services line unit metallic access network (ISLUMAN).	ABT:ISLUMAN 5E15 and later
Allows listing of interrupts in an integrated services line unit (ISLU) metallic access network (MAN).	ALW:HDW-ISLUMAN 5E15 and later

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Diagnoses an integrated services line unit metallic access network (ISLUMAN) to determine whether it is in satisfactory working order.	DGN:ISLUMAN 5E15 and later
Interactively diagnoses the integrated services line unit metallic access network (ISLUMAN).	EX:ISLUMAN 5E15 and later
Inhibits interrupts in an integrated services line unit (ISLU) metallic access network (MAN).	INH:HDW-ISLUMAN 5E15 and later
Requests that an integrated services line unit metallic access network (ISLUMAN) be removed from service.	RMV:ISLUMAN 5E15 and later
Requests that an integrated services line unit metallic access network (ISLUMAN) be restored to service.	RST:ISLUMAN 5E15 and later
Requests that specified action on the integrated services line unit metallic access network (ISLUMAN) be stopped.	STP:ISLUMAN 5E15 and later

113.8 Integrated Services Line Unit Peripheral Interface Data Bus

Topic/Purpose	Message ID/ Software Release Range
Aborts actions on an integrated services line unit (ISLU) peripheral interface data bus (PIDB) pair (both service groups).	ABT:ISLUPIDB 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.	DUMP:UT-MCTSI-PI-A 5E15 only
Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.	DUMP:UT-MCTSI-PI-B 5E16(1) and later
Format 1 requests that an unconditional call to a function using parameters in the specified peripheral interface (PI) unit be executed.	EXC:UT-MCTSI-PI 5E15 and later
Requests that a value be loaded into the memory of the specified peripheral interface (PI) unit.	LOAD:UT-MCTSI-PI 5E15 and later
Requests that an integrated services line unit peripheral interface data bus (ISLUPIDB) pair be removed from service.	RMV:ISLUPIDB 5E15 and later
Requests that an integrated services line unit peripheral interface data bus (ISLUPIDB) pair be restored to service.	RST:ISLUPIDB 5E15 and later
Requests that removes and restores on an integrated services line unit (ISLU) peripheral interface data bus (PIDB) pair (both service groups) be stopped.	STP:ISLUPIDB 5E15 and later

113.9 Integrated Services Line Unit Ringing Generator

Topic/Purpose	Message ID/ Software Release Range
Aborts a specified action on the integrated services line unit ringing generator (ISLURG).	ABT:ISLURG 5E15 and later
Allows listing of error sources in an integrated services line unit (ISLU) ringing generator (RG).	ALW:HDW-ISLURG 5E15 and later
Diagnoses an integrated services line unit ringing generator (ISLURG) to determine whether it is in satisfactory working order.	DGN:ISLURG 5E15 and later
Interactively diagnoses the integrated services line unit ringing generator (ISLURG).	EX:ISLURG 5E15 and later
Inhibits error sources in an integrated services line unit (ISLU) ringing generator (RG).	INH:HDW-ISLURG 5E15 and later
Requests that an integrated services line unit ringing generator (ISLURG) be removed from service.	RMV:ISLURG 5E15 and later
Requests that an integrated services line unit ringing generator (ISLURG) be restored to service.	RST:ISLURG 5E15 and later
Requests that the specified action on the integrated services line unit ringing generator (ISLURG) be stopped.	STP:ISLURG 5E15 and later

114. INTER-WORKING GATEWAY

Topic/Purpose	Message ID/ Software Release

	Range
Requests that actions be aborted on an inter-working gateway facility (IWGFAC).	ABT:IWGFAC 5E15 and later
Requests that actions be aborted on an inter-working gateway link interface (IWGLI).	ABT:IWGLI 5E15 and later
Allows hardware checks on an inter-working gateway link interface (IWGLI).	ALW:HDW-IWGLI 5E15 and later
Requests that diagnostics be executed on an inter-working gateway link interface (IWGLI).	DGN:IWGLI 5E15 and later
Inhibits hardware checks on an inter-working gateway link interface (IWGLI) unit.	INH:HDW-IWGLI 5E15 and later
Requests that an inter-working gateway facility (IWGFAC) be removed from service.	RMV:IWGFAC 5E15 and later
Requests that an inter-working gateway link interface (IWGLI) be removed from service.	RMV:IWGLI 5E15 and later
Requests that an inter-working gateway facility (IWGFAC) be restored to service.	RST:IWGFAC 5E15 and later
Requests that an inter-working gateway link interface (IWGLI) be restored to service.	RST:IWGLI 5E15 and later
Requests the actions be stopped on an inter-working gateway facility (IWGFAC).	STP:IWGFAC 5E15 and later
Requests the actions be stopped on an inter-working gateway link interface (IWGLI).	STP:IWGLI 5E15 and later
Stops pending or currently running test(s) of a digital loop-back (LPBK) test on inter-working gateway (IWG) or the end to end test call.	STP:TST-PATH-A 5E15 only
Stops pending or currently running test(s) of a digital loop-back (LPBK) test on inter-working gateway (IWG) or the end to end test call.	STP:TST-PATH-B 5E16(1) only
Stops currently executing or pending test(s) initiated by a previously received TST:PATH input message.	STP:TST-PATH-C 5E16(2) and later
Requests that the active/standby of an inter-working gateway link interface (IWGLI) be switched (interchanged).	SW:IWGLI 5E15 and later
Format 1 is for requesting the automatic digital 64Kbps pseudo random bit error rate (BER) loopback test call on inter-working gateway (IWG) paths.	TST:PATH-A 5E15 only
Format 1 is for requesting the automatic digital 64Kbps pseudo random bit error rate (BER) loopback test call on inter-working gateway (IWG) paths.	TST:PATH-B 5E16(1) only
The TST:PATH input message is used by office personnel to perform test calls on voice, data, or control paths involving system components.	TST:PATH-C 5E16(2) and later

115. INTER-WORKING UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests that actions be aborted on an inter-working unit facility (IWUFAC).	ABT:IWUFAC 5E16(1) and later
Requests that an inter-working unit facility (IWUFAC) be removed from service.	RMV:IWUFAC 5E16(1) and later
Requests that an inter-working unit facility (IWUFAC) be restored to service.	RST:IWUFAC 5E16(1) and later
Requests the actions be stopped on an inter-working unit facility (IWUFAC).	STP:IWUFAC 5E16(1) and later

116. INTERNET PROTOCOL

Topic/Purpose	Message ID/ Software Release Range
Requests the output of IP address and subnet mask configuration information matching the following specified characteristics.	OP:IPCFG 5E16(2) and later
Requests monitoring of internet protocol (IP) traffic on a IP soft hand-off (SHO) group.	OP:IPTRFC

	5E20(1) and later
Requests that the processing and output of the IP address and subnet mask information request, OP:IPCFG, be stopped.	STP:IPCFG 5E16(2) and later

117. JOB STATUS

Topic/Purpose	Message ID/ Software Release Range
Requests a report of the status of all terminal maintenance jobs initiated through the trunk and line work station (TLWS) maintenance automatic task administrator or the *AUTOPLEX®* automatic task administrator (AATA) currently active in the system.	OP:JOBSTATUS-A 5E15 - 5E16(1)
Requests a report of the status of all terminal maintenance jobs initiated through the trunk and line work station (TLWS) maintenance automatic task administrator or the *AUTOPLEX®* automatic task administrator (AATA) currently active in the system.	OP:JOBSTATUS-B 5E16(2) and later

118. LIBRARY PROGRAM

Topic/Purpose	Message ID/ Software Release Range
Aborts the library program in the administrative module (AM) and/or switching modules (SMs) as specified, and the scratch area used in the SM for the library program is released.	ABT:LIB 5E15 and later
Clears a library program from the scratch area in the switching module (SM), and another team to use the SM for library program testing.	CLR:LIB 5E15 and later
Requests that the existence of the specified library program be verified and loads the scratch memory area of the listed switching modules (SMs) with the library program.	LOAD:LIB 5E15 and later
Requests information about the library programs that exist on the administrative module (AM) disk.	OP:LIB-DISK 5E15 and later
Requests information about the current status of library programs currently loaded or running on the system.	OP:LIB-STATUS 5E15 and later
Requests that the previously loaded library program be started in the administrative module (AM) and/or switching modules (SMs) specified.	ST:LIB 5E15 and later
Requests that the previously started library program be stopped in the administrative module (AM) and/or switching modules (SMs) specified.	STP:LIB 5E15 and later
Provides the data string entered to the specified library program(s).	TELL:LIB 5E15 and later

119. LINE INSULATION TEST

Topic/Purpose	Message ID/ Software Release Range
Requests that line insulation testing (LIT) be initiated, altered or verified.	EXC:LIT 5E15 and later
Reports the progress of automatic line insulation testing (ALIT), showing the ALIT testing status for each modular metallic service unit (MMSU) in the office.	OP:LIT 5E15 and later
Requests a graceful termination of a line insulation testing (LIT) session.	STP:LIT 5E15 and later

120. LINE UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the line unit path exerciser (LUPEX) be aborted at the specified location.	ABT:TST-LEN 5E15 and later
Requests an unconditional restoration of the out-of-service (OOS) common controller for each offline pumpable peripheral after a peripheral offline pump has been performed on one or more switching modules (SMs).	RST:PERF 5E15 and later
Requests that actions on the line unit path exerciser (LUPEX) be stopped at the specified	STP:TST-LEN

location.	5E15 and later
Requests that a specified path be exercised through the line unit path exerciser (LUPEX).	TST:LEN 5E15 and later

120.1 Line Unit A-Link

Topic/Purpose	Message ID/ Software Release Range
Requests that a line unit model 2 (LU2) or a line unit model 3 (LU3) A-link be removed from service.	RMV:ALINK 5E15 and later
Requests that a line unit model 2 (LU2) or a line unit model 3 (LU3) A-link be restored to the active state.	RST:ALINK 5E15 and later
Requests that an out-of-service line unit model 2 (LU2) or a line unit model 3 (LU3) A-link (ALINK) be manually set to a specific state.	SET:ALINK 5E15 and later

120.2 Line Unit Channel

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the line unit channel (LUCHAN) be aborted at the specified location.	ABT:LUCHAN 5E15 and later
Allows hardware error checks to be performed on the specified line unit channel (LUCHAN).	ALW:HDW-LUCHAN 5E15 and later
Requests that a line unit channel (LUCHAN) on a line unit channel board (LUCHBD) be removed and diagnosed to determine if it is in satisfactory working order.	DGN:LUCHAN 5E15 and later
Interactively diagnoses the line unit channel (LUCHAN).	EX:LUCHAN 5E15 and later
Inhibits the hardware error checks performed on the specified line unit channel (LUCHAN).	INH:HDW-LUCHAN 5E15 and later
Requests that a line unit channel (LUCHAN) be removed from service.	RMV:LUCHAN 5E15 and later
Conditionally or unconditionally restores a single line unit channel (LUCHAN) circuit to service.	RST:LUCHAN 5E15 and later
Requests that an out-of-service line unit channel (LUCHAN) circuit be set to a specific state.	SET:LUCHAN 5E15 and later
Requests that actions on the line unit channel (LUCHAN) at the specified location be stopped.	STP:LUCHAN 5E15 and later

120.3 Line Unit Channel Board

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the line unit channel board (LUCHBD) be aborted at the specified location.	ABT:LUCHBD 5E15 and later
Requests that a line unit channel board (LUCHBD) be removed and diagnosed to determine whether it is in satisfactory working order.	DGN:LUCHBD 5E15 and later
Requests that a line unit channel board (LUCHBD) be removed from service.	RMV:LUCHBD 5E15 and later
Conditionally or unconditionally restores a line unit channel board (LUCHBD) to service.	RST:LUCHBD 5E15 and later
Requests that actions on the line unit channel board (LUCHBD) at the specified location be stopped.	STP:LUCHBD 5E15 and later

120.4 Line Unit Command Control

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the line unit common control (LUCOMC) be aborted at the specified	ABT:LUCOMC

location.	5E15 and later
Allows hardware error checks to be performed on the specified line unit common control (LUCOMC).	ALW:HDW-LUCOMC 5E15 and later
Requests that a line unit common control (LUCOMC) be diagnosed.	DGN:LUCOMC 5E15 and later
Interactively diagnoses the line unit common control (LUCOMC).	EX:LUCOMC 5E15 and later
Inhibits the hardware error checks performed on the specified line unit common control (LUCOMC).	INH:HDW-LUCOMC 5E15 and later
Requests that a line unit common control (LUCOMC) be removed from service.	RMV:LUCOMC 5E15 and later
Conditionally or unconditionally restores a line unit common control (LUCOMC) to service.	RST:LUCOMC 5E15 and later
Requests that actions on the line unit common control (LUCOMC) at the specified location be stopped.	STP:LUCOMC 5E15 and later
Requests that the selection of line unit common data and control (LUCOMC) circuits for gated diode crosspoint (GDX) control be switched.	SW:LUCOMC 5E15 and later

120.5 Line Unit High Level Service Circuit

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the line unit high level service circuit (LUHLSC) be aborted at the specified location.	ABT:LUHLSC 5E15 and later
Allows hardware error checks to be performed on the specified line unit high level service circuit (LUHLSC).	ALW:HDW-LUHLSC 5E15 and later
Requests that a line unit high service circuit (LUHLSC) be removed and diagnosed to determine if it is in satisfactory working order.	DGN:LUHLSC 5E15 and later
Interactively diagnoses the line unit high level service circuit (LUHLSC).	EX:LUHLSC 5E15 and later
Inhibits the hardware error checks performed on the specified line unit high service circuit (LUHLSC).	INH:HDW-LUHLSC 5E15 and later
Requests that a line unit high service circuit (LUHLSC) be removed from service.	RMV:LUHLSC 5E15 and later
Conditionally or unconditionally restores a line unit high service circuit (LUHLSC) to service.	RST:LUHLSC 5E15 and later
Requests that actions on the line unit high level service circuit (LUHLSC) at the specified location be stopped.	STP:LUHLSC 5E15 and later

120.6 Line Unit Model 2 Grid Board

Topic/Purpose	Message ID/ Software Release Range
Aborts the scheduled action on the line unit model 2 (LU2) or line unit model 3 (LU3) grid board.	ABT:GRIDBD 5E15 and later
Allows hardware error checks to be performed on the specified line unit model 2 (LU2) or line unit model 3 (LU3) grid board.	ALW:HDW-GRIDBD 5E15 and later
Diagnoses a line unit model 2 (LU2) or line unit model 3 (LU3) grid board to determine if it is in satisfactory working order.	DGN:GRIDBD 5E15 and later
Requests interactive diagnostic (exercises) of the line unit model 2 (LU2) or line unit model 3 (LU3) grid board.	EX:GRIDBD 5E15 and later
Requests that a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be removed from service.	RMV:GRIDBD 5E15 and later
Requests that a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be restored to the active state.	RST:GRIDBD 5E15 and later
Requests that currently running actions on a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be stopped.	STP:GRIDBD 5E15 and later
Tests a specified gated diode crosspoint half-grid board in a line unit model 2 (LU2) or a line	TST:GRIDBD

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unit model 3 (LU3) by running a fabric exerciser routine.	5E15 and later

121. LINK INTERFACE

Topic/Purpose	Message ID/ Software Release Range
Aborts a diagnostic or exercise on the link interface (LI) subunit of the specified office network and timing complex (ONTC).	ABT:LI 5E15 and later
Requests that the link interface (LI) in the specified office network and timing complex (ONTC) be diagnosed.	DGN:LI 5E15 and later
Requests that the link interface (LI) be exercised in an interactive mode.	EX:LI 5E15 and later
Requests information from internal registers of the link interface (LI) or the specified office network and timing complex (ONTC) side.	OP:ST-LI 5E15 and later
Requests that a diagnostic or exercise on the link interface (LI) on the specified office network and timing complex (ONTC) be stopped.	STP:LI 5E15 and later

122. LOADING

Topic/Purpose	Message ID/ Software Release Range
Requests that a virtual address be loaded with specified data as an action associated with a breakpoint.	LOAD:ADDR 5E15 and later
Loads an administrative module (AM) physical byte address with specified data as an immediate operation or as a generic access package (GRASP) breakpoint action.	LOAD:PMEM 5E15 and later
Loads an administrative module (AM) register with specified data as a breakpoint action.	LOAD:REG 5E15 and later
Requests that a value be loaded into the memory of the specified foundation peripheral controller (FPC).	LOAD:UT-FPC 5E15 and later
Requests that a value be loaded into the memory of the specified module message processor (MMP).	LOAD:UT-MMP 5E15 and later
Requests that a value be loaded into the memory of the specified pump peripheral controller (PPC).	LOAD:UT-PPC 5E15 and later
Loads administrative module (AM) generic access package (GRASP) utility variable with specified data as an immediate operation or as an action associated with a breakpoint.	LOAD:UVAR 5E15 and later

123. LOCAL AREA SIGNALING SERVICES

Topic/Purpose	Message ID/ Software Release Range
Requests the report of the incoming line history block (ILHB) information for local area signaling services (LASS).	OP:ILHB 5E15 and later
Requests the report of the outgoing line history block (OLHB) information for local area signaling services (LASS).	OP:OLHB 5E15 and later

124. LOCAL NUMBER PORTABILITY

Topic/Purpose	Message ID/ Software Release Range
Requests that an Operator Services Position System (OSPS) local number portability (LNP) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the LNP/network control point (NCP) database to verify its operation.	TST:LNP 5E15 and later

125. LOCAL DIGITAL SERVICE FUNCTION

Topic/Purpose	Message ID/ Software Release Range

Aborts actions on the local digital service function (LDSF).	ABT:LDSF 5E15 and later
Allows maintenance hardware checks in a local digital service function (LDSF) circuit to occur.	ALW:HDW-LDSF 5E15 and later
Diagnoses a local digital service function (LDSF) circuit to determine whether it is in satisfactory working order.	DGN:LDSF 5E15 and later
Interactively diagnoses the local digital service function (LDSF) circuit.	EX:LDSF 5E15 and later
Checks hardware in a local digital service function (LDSF) circuit.	INH:HDW-LDSF 5E15 and later
Requests that a local digital services function (LDSF) circuit be removed from service.	RMV:LDSF 5E15 and later
Conditionally or unconditionally restores a local digital service function (LDSF) circuit to service.	RST:LDSF 5E15 and later
Requests that actions on the local digital service function (LDSF) circuit be stopped.	STP:LDSF 5E15 and later

126. LOCAL DIGITAL SERVICE UNIT

Topic/Purpose	**Message ID/ Software Release Range**
Aborts actions on the local digital service unit - model 2 (LDSU2).	ABT:LDSU 5E15 and later
Allows maintenance hardware checks in a local digital service unit - model 2 (LDSU2) board to occur.	ALW:HDW-LDSU 5E15 and later
Diagnoses a local digital service unit - model 2 (LDSU2) board to determine whether it is in satisfactory working order.	DGN:LDSU 5E15 and later
Interactively diagnoses the local digital service unit - model 2 (LDSU2) board.	EX:LDSU 5E15 and later
Checks hardware in a local digital service unit - model 2 (LDSU2) board.	INH:HDW-LDSU 5E15 and later
Requests that a local digital services unit - model 2 (LDSU2) board be removed from service.	RMV:LDSU 5E15 and later
Conditionally or unconditionally restores a local digital service unit - model 2 (LDSU2) board to service.	RST:LDSU 5E15 and later
Requests that actions on the local digital service unit - model 2 (LDSU2) board be stopped.	STP:LDSU 5E15 and later

126.1 Local Digital Service Unit Common Board

Topic/Purpose	**Message ID/ Software Release Range**
Requests that actions on the local digital service unit common (LDSUCOM) board be aborted at the specified location.	ABT:LDSUCOM 5E15 and later
Allows hardware error checks to be performed on the specified local digital service unit common (LDSUCOM) board.	ALW:HDW-LDSUCOM 5E15 and later
Requests that a local digital service unit common (LDSUCOM) board be diagnosed to determine whether it is in satisfactory working order.	DGN:LDSUCOM 5E15 and later
Interactively diagnoses the local digital service circuit common (LDSUCOM) board.	EX:LDSUCOM 5E15 and later
Inhibits the hardware error checks performed on the specified local digital service unit common (LDSUCOM) board.	INH:HDW-LDSUCOM 5E15 and later
Requests that a local digital services unit common (LDSUCOM) board be removed from service.	RMV:LDSUCOM 5E15 and later
Conditionally or unconditionally restores a local digital service unit common (LDSUCOM) board to service.	RST:LDSUCOM 5E15 and later
Requests that actions on the local digital service unit common board (LDSUCOM) at the specified location be stopped.	STP:LDSUCOM 5E15 and later

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127. LOGS

Topic/Purpose	Message ID/ Software Release Range
Requests that logging of all errors for a specified administrative module (AM) unit and any units beneath it that are reported to CONFIG be allowed.	ALW:CONFLOG 5E15 and later
To enable the logging of customer-originated recent changes for one or more switching modules (SMs).	ALW:CORCLOG-SM 5E15 and later
Requests that logging of recent changes be allowed for all processors.	ALW:RCLOG 5E15 and later
Requests that the log/print status (LPS) of one or all output message class(es) be changed.	CHG:LPS-MSGCLS 5E15 and later
Requests that customer-originated recent change (CORC) logfiles be evolved (converted) and reapplied.	CNVT:CORCLOG 5E15 and later
Requests that recent change (RC) logfiles be Evolved (converted) to a format compatible with the target software release.	CNVT:RCLOG 5E15 and later
Requests that the office dependent data (ODD) recent change (RC) log file be copied from disk to magnetic tape.	COPY:LOG-TAPE 5E15 and later
Requests deletion of selected contents of a logfile and cleans out corrupt entries from the file.	DEL:LOG 5E15 and later
Requests reapplication of customer-originated and/or regular recent changes (RCs) from the disk log.	EXC:ODDRCVY 5E15 and later
Inhibits error logging on the CONFLOG error logfile for all specified central processor units.	INH:CONFLOG 5E15 and later
Inhibits the logging of customer-originated recent changes for one or more switching modules (SMs).	INH:CORCLOG-SM 5E15 and later
Inhibits the logging of recent changes for all processors.	INH:RCLOG 5E15 and later
Reports how much disk space (in bytes) is left for logging recent changes and customer-originated recent changes.	OP:AVAILLOG 5E15 and later
Requests the reporting of the number of customer-originated recent changes (CORCs) that are logged in one or more switching modules (SMs) and/or one or more communication module processors (CMPs).	OP:CORCSTAT-SM 5E15 and later
Requests output of the application hook (APPLHOOK) process log file.	OP:G-APPLLOG 5E15 and later
Requests output of the central processor or administrative module (AM) system update event log.	OP:G-READLOG 5E15 and later
Requests that selected contents of a logfile be printed (output).	OP:LOG 5E15 and later
Requests the current and backup log/print status (LPS).	OP:LPS 5E15 and later
Requests that an interpreted version of the selected MEMLOG entries be reported.	OP:MEMERRS 5E15 and later

128. MACHINE-DETECTED INTEROFFICE IRREGULARITY

Topic/Purpose	Message ID/ Software Release Range
Requests that a specific machine-detected interoffice irregularity (MDII) that has reporting suppressed be allowed to be printed again.	ALW:MDII-A 5E15 only
Requests that a specific machine-detected interoffice irregularity (MDII) that has reporting suppressed be allowed to be printed again.	ALW:MDII-B 5E16(1) and later
Requests that the printing of a specific machine-detected interoffice irregularity (MDII) be suppressed.	INH:MDII-A 5E15 only
Requests that the printing of a specific machine-detected interoffice irregularity (MDII) be suppressed.	INH:MDII-B 5E16(1) and later
Requests a list of all of the trunk groups and machine-detected interoffice irregularities (MDIIs) that are being suppressed by a suppression MDII.	OP:MDII 5E15 and later

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Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists.	OP:TERACNTS-A 5E15 only
Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists.	OP:TERACNTS-B 5E16(1) and later

129. MAGNETIC TAPE

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified magnetic tape (MT).	DGN:MT 5E15 and later
Exercises a magnetic tape (MT) in an interactive diagnostic mode.	EX:MT 5E15 and later
Requests information regarding the specified small computer system interface (SCSI) magnetic tape (MT).	OP:MT-INFO-A 5E15 - 5E16(1)
Requests information regarding the specified small computer system interface (SCSI) magnetic tape (MT) device.	OP:MT-INFO-B 5E16(2) and later

129.1 Magnetic Tape Controller

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified magnetic tape controller (MTC).	DGN:MTC 5E15 and later
Exercises a magnetic tape controller (MTC) in an interactive diagnostic mode.	EX:MTC 5E15 and later
Requests that the specified magnetic tape controller (MTC) and any associated magnetic tape drives be removed from service.	RMV:MTC 5E15 and later
Conditionally or unconditionally restores a magnetic tape controller (MTC) to service.	RST:MTC 5E15 and later

129.2 Magnetic Tape Device

Topic/Purpose	Message ID/ Software Release Range
Requests that the specified magnetic tape (MT) device be removed from service.	RMV:MT 5E15 and later
Restores the specified magnetic tape (MT) device to service.	RST:MT 5E15 and later

130. MAINTENANCE STATUS

Topic/Purpose	Message ID/ Software Release Range
Allows previously inhibited or suspended sources to send automatic maintenance requests to the administrative module (AM) maintenance input request administrator (MIRA).	ALW:DMQ 5E15 and later
Request that the specified source of automatic maintenance requests be inhibited.	INH:DMQ 5E15 and later
Requests a list of the queue from the administrative module (AM) maintenance input request administrator.	OP:DMQ 5E15 and later
Requests the status of all active and waiting requests in the deferred maintenance queues (DMQ).	OP:DMQ-CM-SM 5E15 and later
Requests the service selection status of a processor group by either specifying a processor group, range of processor groups or a processor in a processor group.	OP:ST-SERV 5E16(2) and later
Requests that the specified administrative module (AM) maintenance request be stopped.	STOP:DMQ

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	5E15 and later
Requests that the specified administrative module (AM) maintenance request be stopped.	STP:DMQ 5E15 and later
Requests that the specified switching module (SM) have all deferred maintenance queue (DMQ) requests stopped.	STP:DMQ-SM 5E15 and later
Requests the that the service selection of a processor group be switched.	SW:SERV 5E16(2) and later

131. MAINTENANCE TELETYPEWRITER

Topic/Purpose	Message ID/ Software Release Range
Requests specific information about a maintenance teletypewriter (MTTY).	OP:MTTY 5E15 and later
Requests specific information about a maintenance teletypewriter controller (MTTYC).	OP:MTTYC 5E15 and later
Requests that the specified maintenance teletypewriter (MTTY) be removed from service.	RMV:MTTY 5E15 and later
Restores the specified maintenance teletypewriter (MTTY) to service.	RST:MTTY 5E15 and later

131.1 Maintenance Teletypewriter Controller

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified maintenance teletypewriter controller (MTTYC).	DGN:MTTYC 5E15 and later
Exercises a maintenance teletypewriter controller (MTTYC) in an interactive diagnostic mode.	EX:MTTYC 5E15 and later
Requests that the specified maintenance teletypewriter controller (MTTYC) and all associated maintenance teletypewriters, read-only printers, and Switching Control Center (SCC) data link devices be removed from service.	RMV:MTTYC 5E15 and later
Restores conditionally or unconditionally a maintenance teletypewriter controller (MTTYC) to service.	RST:MTTYC 5E15 and later

132. MASTER CONTROL CENTER

Topic/Purpose	Message ID/ Software Release Range
Request to display the text, activation status and default confirmation prompt for a specified Master Control Center (MCC) page and poke combination.	OP:CONFIRM 5E15 and later
Outputs the current firmware version of the CM3 ONTC or CM3 MSGS requested at the Master Control Center (MCC) and the Switching Control Center (SCC).	OP:VERS 5E15 and later
Request to set the text and/or display status of a user-definable confirmation prompt.	SET:CONFIRM 5E15 and later

133. MEMORY

Topic/Purpose	Message ID/ Software Release Range
This message configures the switching modules (SMs) physical memory after memory board growth to incorporate the memory added into the spare memory hole.	CFR:PMEM 5E15 and later
Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.	CFR:SPRMEM-A 5E15 only
Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that	CFR:SPRMEM-B 5E16(1) only

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resides in the peripheral unit specified on the input message line.	
Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.	CFR:SPRMEM-C 5E16(2) - 5E17(1)
Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.	CFR:SPRMEM-D 5E18(1) only
Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.	CFR:SPRMEM-E 5E19(1) only
Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.	CFR:SPRMEM-F 5E20(1) only
Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.	CFR:SPRMEM-G 5E21(1) and later
Requests that the variable sections of switching module (SM) memory be dumped.	DUMP:SMMAP 5E15 and later
Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.	ST:NIPMP-A 5E15 only
Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.	ST:NIPMP-B 5E16(1) only
Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.	ST:NIPMP-C 5E16(2) - 5E17(1)
Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.	ST:NIPMP-D 5E18(1) only
Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.	ST:NIPMP-E 5E19(1) only
Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.	ST:NIPMP-F 5E20(1) only
Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.	ST:NIPMP-G 5E21(1) and later
Requests that a non-interfering pump for the specified switching module (SM) be canceled.	STP:NIPMP 5E15 and later
Requests an update of flash random access memory (RAM) on a specified peripheral controller (PC).	UPD:FLASH 5E15 and later

134. MESSAGE INTERFACE

Topic/Purpose	**Message ID/ Software Release Range**
Aborts a diagnostic or exercise on the message interface (MI) on the specified office network and timing complex (ONTC).	ABT:MI 5E15 and later
Requests that the message interface (MI) in the specified office network and timing complex (ONTC) be diagnosed.	DGN:MI 5E15 and later
Requests that the message interface (MI) be exercised in an interactive mode.	EX:MI 5E15 and later
Requests the hardware state of the message interface (MI).	OP:ST-MI 5E15 and later

134.1 Message Interface Clock Unit

Topic/Purpose	Message ID/ Software Release Range
Requests that a diagnostic or exercise be aborted on a message interface and clock unit (MICU) subunit of the office network and timing complex (ONTC).	ABT:MICU 5E15 and later
Requests that a message interface control unit (MICU) subunit of the specified office network and timing complex (ONTC) be diagnosed.	DGN:MICU 5E15 and later
Requests that a diagnostic or exercise on the message interface and clock unit (MICU) subunit of the office network and timing complex (ONTC) be stopped.	STP:MICU 5E15 and later

135. MESSAGE SWITCH

Topic/Purpose	Message ID/ Software Release Range
Aborts actions on a message switch (MSGS).	ABT:MSGS 5E15 and later
Requests diagnostics on a message switch (MSGS) to determine if it is in satisfactory working order.	DGN:MSGS 5E15 and later
Outputs the current firmware version of the CM3 ONTC or CM3 MSGS requested at the Master Control Center (MCC) and the Switching Control Center (SCC).	OP:VERS 5E15 and later
Requests that a message switch (MSGS) be removed from service.	RMV:MSGS 5E15 and later
Restores a message switch (MSGS) to an in service condition.	RST:MSGS 5E15 and later
Requests that specific actions on the specified message switch (MSGS) complex be stopped.	STP:MSGS 5E15 and later

135.1 Message Switch Control Unit

Topic/Purpose	Message ID/ Software Release Range
Aborts an action on the message switch control unit (MSCU) on the specified message switch (MSGS).	ABT:MSCU 5E15 and later
Allows hardware checks (errors) on a message switch control unit (MSCU).	ALW:HDW-MSCU 5E15 and later
Diagnoses the specified message switch control unit (MSCU).	DGN:MSCU 5E15 and later
Requests that the essage switch control unit (MSCU) be exercised in an interactive mode.	EX:MSCU 5E15 and later
Inhibits hardware checks (errors) on a message switch control unit (MSCU).	INH:HDW-MSCU 5E9(1) and later
Requests that a message switch control unit (MSCU) be removed from service.	RMV:MSCU 5E15 and later
Conditionally or unconditionally restores a message switch control unit (MSCU) to the active state.	RST:MSCU 5E15 and later
Requests that specific actions on the specified message switch control unit (MSCU) be stopped.	STP:MSCU 5E15 and later

136. MESSAGE WAITING INDICATOR

Topic/Purpose	Message ID/ Software Release Range
Requests that a Message Service System (MSS) message waiting indicator (MWI) be deactivated for a given seven-digit directory number (DN).	CLR:MWI 5E15 and later
Requests that a Message Service System (MSS) message waiting indicator (MWI) be activated for a given seven-digit directory number (DN).	SET:MWI 5E15 and later

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137. METALLIC ACCESS

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the metallic access (MA) circuit be aborted at the specified location.	ABT:MA 5E15 and later
Requests that a metallic access (MA) board be diagnosed to determine whether it is in satisfactory working order.	DGN:MA 5E15 and later
Requests interactive diagnostics (exercises) of the metallic access (MA) board.	EX:MA 5E15 and later
Requests that a metallic access (MA) board be removed from service.	RMV:MA 5E15 and later
Requests that a metallic access (MA) board in a metallic service unit (MSU) be conditionally or unconditionally restored to service.	RST:MA 5E15 and later
Requests that actions on the metallic access (MA) board at the specified location be stopped.	STP:MA 5E15 and later

137.1 Metallic Access Bus

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the metallic access bus (MAB) be aborted at the specified locations.	ABT:MAB 5E15 and later
Requests that actions on the metallic access circuit be aborted at the specified location.	ABT:MTB 5E15 and later
Requests that the metallic access bus (MAB) be diagnosed to determine whether it is in satisfactory working order.	DGN:MAB 5E15 and later
Requests that a metallic access test bus (MTB) be diagnosed to determine whether it is in satisfactory working order.	DGN:MTB 5E15 and later
Requests that the metallic access bus (MAB) be exercised to determine whether it is in satisfactory working order.	EX:MAB 5E15 and later
Requests interactive diagnostics (exercises) of the metallic access test bus (MTB).	EX:MTB 5E15 and later
Requests that the metallic access bus (MAB) be removed from service.	RMV:MAB 5E15 and later
Requests that a metallic access test bus (MTB) be removed from service.	RMV:MTB 5E15 and later
Requests that the metallic access bus (MAB) be restored to the active state conditionally or unconditionally.	RST:MAB 5E15 and later
Requests a metallic access test bus (MTB) in a metallic access board (MA) be conditionally or unconditionally restored to service.	RST:MTB 5E15 and later
Requests that actions on the metallic access bus (MAB) at the specified location be stopped.	STP:MAB 5E15 and later
Requests that actions on the metallic access test bus (MTB) at the specified location be stopped.	STP:MTB 5E15 and later

138. METALLIC SERVICE UNIT

138.1 Metallic Service Unit Distribute Point

Topic/Purpose	Message ID/ Software Release Range
Requests that a metallic service unit (MSU)/ modular metallic service unit (MMSU) distribute point be exercised.	EX:DISTPT 5E15 and later

138.2 Metallic Service Unit Common Board

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the metallic service unit common (MSUCOM) board be aborted at the specified location.	ABT:MSUCOM 5E15 and later
Requests that a metallic service unit common (MSUCOM) board be diagnosed to determine whether it is in satisfactory working order.	DGN:MSUCOM 5E15 and later
Interactively diagnoses (exercises) the metallic service unit common (MSUCOM) board.	EX:MSUCOM 5E15 and later
Requests that a metallic service unit common (MSUCOM) board be removed from service.	RMV:MSUCOM 5E15 and later
Requests that a metallic service unit common (MSUCOM) board be conditionally or unconditionally restored to service.	RST:MSUCOM 5E15 and later
Requests that actions on the metallic service unit common (MSUCOM) board at the specified location be stopped.	STP:MSUCOM 5E15 and later

138.3 Metallic Service Unit Scan Points

Topic/Purpose	Message ID/ Software Release Range
Requests the output of the status of the scan points (SP) on a metallic service unit (MSU) scan board.	OP:MSUSP 5E15 and later

139. METALLIC TEST BUS

Topic/Purpose	Message ID/ Software Release Range
Requests that metallic setup failure override be allowed when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT).	ALW:RTMTBOVR 5E15 and later
Requests that the printing of the REPT:RTMTB-SID output message be allowed when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).	ALW:RTMTBPRT 5E15 and later
Requests that metallic setup failure override be inhibited when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT).	INH:RTMTBOVR 5E15 and later
Requests that the printing of the REPT RTMTB SID message be inhibited when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).	INH:RTMTBPRT 5E15 and later

140. METALLIC TEST INTERCONNECT BUS

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the metallic test interconnect bus (MTIB) be aborted at the specified locations.	ABT:MTIB 5E15 and later
Requests that the metallic test interconnect bus (MTIB) be diagnosed to determine whether it is in satisfactory working order.	DGN:MTIB 5E15 and later
Exercises the metallic test interconnect bus (MTIB) to determine if it is in satisfactory working order.	EX:MTIB 5E15 and later
Requests that the metallic test interconnect bus (MTIB) be removed from service.	RMV:MTIB 5E15 and later
Restores the metallic test interconnect bus (MTIB) to the active state conditionally or unconditionally.	RST:MTIB 5E15 and later
Requests that actions on the metallic test interconnect bus (MTIB) at the specified location be stopped.	STP:MTIB 5E15 and later

140.1 Metallic Test Interconnect Bus Access

Topic/Purpose	Message ID/ Software Release

	Range
Requests that actions on the metallic test interconnect bus access (MTIBAX) be aborted at the specified locations.	ABT:MTIBAX 5E15 and later
Requests that the metallic test interconnect bus access (MTIBAX) be diagnosed to determine whether it is in satisfactory working order.	DGN:MTIBAX 5E15 and later
Exercises the metallic test interconnect bus access (MTIBAX) to determine whether it is in satisfactory working order.	EX:MTIBAX 5E15 and later
Requests that the metallic test interconnect bus access (MTIBAX) be removed from service.	RMV:MTIBAX 5E15 and later
Restores the metallic test interconnect bus access (MTIBAX) to the active state conditionally or unconditionally.	RST:MTIBAX 5E15 and later
Requests that actions on the metallic test interconnect bus access (MTIBAX) at the specified location be stopped.	STP:MTIBAX 5E15 and later

141. MOBILE SWITCHING CENTER

Topic/Purpose	Message ID/ Software Release Range
Requests a printout of the global maintenance switching module (SM) number and the status of the enhanced Flexent\(rg packet switch (FPS) traffic measurements interface for high capacity mobile switching center (MSC) Office option.	OP:OMP 5E20(1) and later

142. MODULE CONTROLLER/TIME-SLOT INTERCHANGE

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the module controller/time slot interchange (MCTSI) be aborted at the specified location.	ABT:MCTSI 5E15 and later
Clears the forced condition from the module controller time-slot interchange (MCTSI) in the switching modules (SM) specified.	CLR:MCTSI 5E15 and later
Removes and diagnoses a module control/time-slot interchange unit (MCTSI) to determine if it is in satisfactory working order.	DGN:MCTSI 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified message handler (MH) unit be dumped.	DUMP:UT-MCTSI-MH 5E15 and later
Interactively diagnoses (exercises) the module controller/time-slot interchange (MCTSI) unit.	EX:MCTSI 5E15 and later
Requests that an unconditional call to a function be executed using parameters in the specified message handler (MH) unit.	EXC:UT-MCTSI-MH-A 5E15 - 5E16(1)
Format 1 requests that an unconditional call to a function using parameters in the specified message handler (MH) unit be executed.	EXC:UT-MCTSI-MH-B 5E16(2) and later
Requests that a value(s) be loaded into the memory of the specified message handler (MH) unit.	LOAD:UT-MCTSI-MH 5E15 and later
Requests that a module controller/time-slot interchange unit (MCTSI) be removed from service.	RMV:MCTSI 5E15 and later
Requests that a module control/time slot interchange unit (MCTSI) be conditionally or unconditionally restored to the active state.	RST:MCTSI 5E15 and later
Requests that the specified side of module control/time slot interchange units (MCTSI) be forced to the active state, by using the administrative module intervention (AMI).	SET:MCTSI 5E15 and later
Requests that actions on the module controller/time slot interchange (MCTSI) at the specified location be stopped.	STP:MCTSI 5E15 and later
Requests that a module controller/time slot interchange (MCTSI) be switched from standby to active.	SW:MCTSI 5E15 and later

143. MCTSI Links

Topic/Purpose	Message ID/ Software Release Range
Requests a printout of the maintenance state of the MCTSI-based ethernet links (MELNKs)	OP:ST-MELNK

and MCTSI-based ethernet pipes (MEPIPEs) on a switching module (SM).	5E15 and later
Requests that an MCTSI-based ethernet link (MELNK) be removed from service.	RMV:MELNK 5E15 and later
Requests that a single MCTSI-based ethernet link (MELNK) or all MELNKs on a switching module (SM) be restored to service.	RST:MELNK 5E15 and later

144. MODULE MESSAGE PROCESSOR

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the specified module message processor (MMP) be aborted.	ABT:MMP 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified module message processor (MMP).	ALW:HDW-MMP 5E15 and later
Requests that a module message processor (MMP) be diagnosed to determine whether it is in satisfactory working order.	DGN:MMP 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.	DUMP:UT-MMP 5E15 and later
Requests that the module message processor (MMP) be exercised in an interactive mode.	EX:MMP 5E15 and later
Requests that an unconditional call to a function using parameters in the specified module message processor (MMP) be executed.	EXC:UT-MMP 5E15 and later
Requests that hardware error checks on the specified module message processor (MMP) be inhibited.	INH:HDW-MMP 5E15 and later
Requests that a value be loaded into the memory of the specified module message processor (MMP).	LOAD:UT-MMP 5E15 and later
Requests that the specified module message processor (MMP) be removed from service.	RMV:MMP 5E15 and later
Requests that a module message processor (MMP) be restored to the active state.	RST:MMP 5E15 and later
Requests that actions on the specified message module processor (MMP) be stopped.	STP:MMP 5E15 and later

145. MOVING HEAD DISK

Topic/Purpose	Message ID/ Software Release Range
Requests that the automatic moving head disk (MHD) configuration feature be enabled for the entire office or for a specific MHD.	ALW:AUTOCFG 5E15 and later
To clear a given moving head disk's (MHD's) media access error counter (MAEC).	CLR:MHD-MAEC 5E15 and later
Compares the contents of two disks or two disk partitions.	CMPR:MHD 5E15 and later
Diagnoses the specified moving head disk (MHD).	DGN:MHD 5E15 and later
Dumps the contents of a specified single disk block or a range of blocks, in hexadecimal.	DUMP:MHD-BLOCK 5E15 and later
Dumps defect management information for a moving head disk (MHD).	DUMP:MHD-DEFECT 5E15 and later
Formats and prints the contents of a disk pack's volume table of contents (VTOC).	DUMP:MHD-VTOC 5E15 and later
Exercises a moving head disk (MHD) in an interactive diagnostic mode.	EX:MHD 5E15 and later
Requests that the automatic moving head disk (MHD) configuration feature be disabled for the entire office or for a specific MHD.	INH:AUTOCFG 5E15 and later
Formats all or specific disk tracks of the disk pack with initialized sectors.	INIT:MHD 5E15 and later
Loads new defect location data on to a moving head disk (MHD).	LOAD:MHD

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	5E15 and later
Requests that the executable microcode and/or control information be loaded into the control memory of a small computer system interface (SCSI) moving head disk (MHD).	LOAD:MHD-FIRMWARE 5E15 and later
Requests the current configuration of the moving head disks (MHDs) and the status of the automatic MHD configuration (CFG) feature.	OP:MHD-CFG 5E15 and later
Requests information regarding the specified moving head disk (MHD).	OP:MHD-INFO-A 5E15 - 5E17(1)
Requests information regarding the specified moving head disk (MHD).	OP:MHD-INFO-B 5E18(1) and later
Requests that the specified moving head disk (MHD) be removed from service.	RMV:MHD 5E15 and later
Conditionally or unconditionally restores a moving head disk (MHD) to service.	RST:MHD 5E15 and later
Stops any CMPR:MHD input messages that are currently executing.	STOP:CMPR-MHD 5E15 and later
Stops any CMPR:MHD input messages that are currently executing.	STP:CMPR-MHD 5E15 and later
Requests a software switch of the logical names of the moving head disks (MHDs).	SW:MHD 5E15 and later
Reads all or specific disk tracks/blocks and verifies the header and error-correction code of each sector of the tracks/blocks read.	VFY:MHD 5E15 and later

146. NAIL-UP CONNECTIONS

Topic/Purpose	**Message ID/ Software Release Range**
Outputs a status list of all inter-SM (switching module) nailups (ISMNAIL) used for packet transport between two SMs.	OP:LIST-ISMNAIL-A 5E15 only
Outputs a status list of all inter-switching module nailups (ISMNAIL) used for packet transport between two SMs.	OP:LIST-ISMNAIL-B 5E16(1) and later
Requests a display of all specified nail-up connections nailed up using RC/V View 7.11 (NAIL-UP AND HAIRPIN SPECIFICATION) for a given SM, unit, facility, or equipment number.	OP:NAILUP-A 5E15 - 5E16(1)
Requests a display of all specified nail-up connections nailed up using RC/V View 7.11 (NAIL-UP AND HAIRPIN SPECIFICATION) for a given SM, unit, facility, or equipment number.	OP:NAILUP-B 5E16(2) and later
Outputs the primary and history states of a single inter-switching module nailup (ISMNAIL), used for packet transport between two SMs.	OP:ST-ISMNAIL 5E15 and later
Outputs the inter-switching module timeslot (ISMTS) usage of inter-SM nailups (ISMNAIL) used for packet transport between two SMs.	OP:ST-ISMTS 5E15 and later
Removes an inter-switching module (SM) nailup (ISMNAIL), which is used to support packet transport between two SMs.	RMV:ISMNAIL 5E15 and later
Restores an inter-switching module (SM) nailup (ISMNAIL), which is used to support packet transport between two SMs.	RST:ISMNAIL 5E15 and later
Stops the output of the inter-switching module nailup (ISMNAIL) list or off-normal request, gracefully.	STP:ISMNAIL 5E15 and later

147. NETWORK CLOCK

Topic/Purpose	**Message ID/ Software Release Range**
Aborts a diagnostic procedure or exercise of the network clock (NC) on the specified office network and timing complex (ONTC).	ABT:NC 5E15 and later
Requests that the network clock (NC) in the specified office network and timing complex (ONTC) be diagnosed.	DGN:NC 5E15 and later
Requests a dump of information related to the network clock model 2 (NC2) or model 3 (NC3).	DUMP:NC 5E15 and later
Requests that the network clock (NC) be exercised in an interactive mode.	EX:NC

	5E15 and later
Requests that the network clock (NC) of the office network and timing complex (ONTC) be set to a specific mode.	SET:NC 5E15 and later

147.1 Network Clock Reference

Topic/Purpose	Message ID/ Software Release Range
Requests that hardware error checks be allowed to be performed on a specified network clock reference (NCREF).	ALW:HDW-NCREF 5E15 and later
Requests that hardware error checks be inhibited on the specified network clock reference (NCREF).	INH:HDW-NCREF 5E15 and later
Requests that a network clock reference (NCREF) be removed from service.	RMV:NCREF 5E15 and later
Requests that a network clock reference (NCREF) be restored to service.	RST:NCREF 5E15 and later
Requests that a network clock reference (NCREF) be switched to the specified clock reference source.	SW:NCREF 5E15 and later

147.2 Network Clock Oscillator

Topic/Purpose	Message ID/ Software Release Range
Clears the forced configurations on the network clock oscillator (NCOSC).	CLR:FRC-NCOSC 5E15 and later
Requests that a network clock oscillator (NCOSC) be removed from service.	RMV:NCOSC 5E15 and later
Restores a network clock model 2 (NC2) or model 3 (NC3) oscillator (NCOSC) to service.	RST:NCOSC 5E15 and later
Requests that the forced (FRC) condition be set on the specified side of the network clock model 2 or 3 oscillator (NCOSC) to be used as the timing base for the office.	SET:FRC-NCOSC 5E15 and later
Switches the active network clock oscillator (NCOSC) to the specified side.	SW:NCOSC 5E15 and later

147.3 Network Clock Oscillator Cross-Couple

Topic/Purpose	Message ID/ Software Release Range
Requests that the network clock 2 oscillator cross-couple (OSCXC) be removed from service.	RMV:OSCXC 5E15 and later
Restores the network clock 2 oscillator cross-couple output (OSCXC) to service.	RST:OSCXC 5E15 and later

148. NETWORK LINK INTERFACE

Topic/Purpose	Message ID/ Software Release Range
Aborts an action on a specific network link interface (NLI).	ABT:NLI 5E15 and later
Requests diagnosis of a specific network link interface (NLI) in a switching module (SM) on a specified office network and timing complex (ONTC) side, to determine if it is in satisfactory working order.	DGN:NLI 5E15 and later
Requests that the network link interface (NLI) be exercised in a switching module (SM) on the specified office network and timing complex (ONTC) side.	EX:NLI 5E15 and later
Requests a removal of a specific network link interface (NLI) from service.	RMV:NLI-A 5E15 - 5E16(1)
Requests a removal of a specific network link interface (NLI) from service.	RMV:NLI-B

	5E16(2) and later
Requests that a specific network link interface (NLI) be restored to service.	RST:NLI 5E15 and later
Requests that an action be stopped on a specific network link interface (NLI).	STP:NLI 5E15 and later

149. NETWORK MANAGEMENT

Topic/Purpose	Message ID/ Software Release Range
Requests that the printing of output messages stimulated by the remote network management center (RNMC) be allowed.	ALW:NMOUT-A 5E15 - 5E16(1)
Requests that the printing of output messages stimulated by the remote network management center (RNMC) be allowed.	ALW:NMOUT-B 5E16(2) and later
Requests that a destination specified by code and/or carrier be assigned to the manual hard-to-reach (MHTR) list.	ASGN:MHTR 5E16(2) and later
Requests that node identifiers be assigned to the network management node schedule (NMNODES) for the collection of five-minute node-to-node data.	ASGN:NMNODES 5E15 and later
Requests that trunk groups be assigned to the network management (NM) schedule (SCH).	ASGN:NMSCH 5E15 and later
To execute the NMDATA specific audit to monitor the integrity of network management dynamic data.	AUD:NMDATA 5E15 and later
Requests that node(s) be removed from the five-minute network management node schedule (NMNODES).	CLR:NMNODES 5E15 and later
Requests that trunk groups be removed from the network management (NM) schedule (SCH).	CLR:NMSCH 5E15 and later
Requests that the printing of output messages stimulated by the remote network management center (RNMC) be inhibited.	INH:NMOUT-A 5E15 - 5E16(1)
Requests that the printing of output messages stimulated by the remote network management center (RNMC) be inhibited.	INH:NMOUT-B 5E16(2) and later
Requests a list of all nodes on the five-minute network management node schedule (NMNODES).	OP:NMNODES 5E15 and later
Requests a list of the current set of network management (NM) output message inhibits on the engineering and administrative data acquisition system (EADAS) stimulated output messages.	OP:NMOUT 5E15 and later
Requests a list of the current values on the Master Control Center (MCC) network management (NM) exception page (NMPGE).	OP:NMPGE 5E15 and later
Requests a list of all trunk groups on the network management (NM) trunk group schedule.	OP:NMSCH 5E15 and later
Requests a list of all network management (NM) threshold (NMTHD) values for maintenance usage, connections per circuit per hour (CCH), and attempts per circuit per hour (ACH) for trunk group indicators in the TRUNK block.	OP:NMTHD 5E15 and later
Requests that the network management threshold (NMTHD) values be changed for a given type of trunk group indicator in the TRUNK block of the defense switched network network management (DSN NM) exception page (page 129).	SET:NMTHD 5E15 and later
Requests that further output from a previously requested network management OP input message be stopped.	STP:NMOP 5E15 and later

150. NODE PROCESSOR MEMORY

Topic/Purpose	Message ID/ Software Release Range
Requests a report of the specified node processor (NP) memory or port locations, and sends the output to a file or to the ROP or both.	OP:NPMEM 5E15 and later

151. NON-RESIDENT CALL TRACE LIST

Topic/Purpose	Message ID/ Software Release Range

Requests that the directory numbers on the calling line identification list (CLID) be printed.	OP:CLID 5E15 and later
Requests that a directory number (DN) be added to or deleted from the calling line identification (CLID) list.	TRC:CLID 5E15 and later

152. NON-VOLATILE MEMORY

Topic/Purpose	Message ID/ Software Release Range
Requests that a list of the version identifiers be printed for the non-volatile memory (NVMEM) firmware and hardware images that reside on the control fanout, version 3 (CF3) and packet fanout, version 3 (PF3) circuits boards in the enhanced packet switching unit, version 2 (PSU2E) common (COM) controller(s).	OP:NVMEM-PSUCOM-A 5E18(1) - 5E19(1)
Requests that a list of the version identifiers be printed for the non-volatile memory (NVMEM) firmware and hardware images that reside on the control fanout, and packet fanout circuits boards in the packet switching unit (PSU) common (COM) controller(s).	OP:NVMEM-PSUCOM-B 5E20(1) and later
Requests that a list of the version identifiers be printed for the non-volatile memory (NVMEM) for protocol handler for voice, version 7 (PHV7) boards.	OP:NVMEM-PSUPH 5E21(1) and later

153. OFF-NORMAL STATUS

Topic/Purpose	Message ID/ Software Release Range
Outputs a report of off-normal inter-SM (switching module) nailups (ISMNAILs) used for packet transport between SMs.	OP:OFFNORM-IS 5E15 and later
Requests a list of all off-normal primary rate interface (PRI) integrated services digital network (ISDN) D-channels.	OP:OFFNORM-PRI 5E15 and later
Requests status for all offnormal quad-link packet switch protocol handler links (QPHLNKs) on a host global switching module (HOST GSM).	OP:OFFNORM-QPHN 5E15 and later
Requests a list of all off-normal circuits in switching modules (SM).	OP:OFFNORM-SM 5E15 and later
Requests a copy of the off-normal report as shown on the Master Control Center (MCC) display pages for system inhibits, administrative module (AM), communication module (CM), communication module processor (CMP), and switching module (SM) summarizing pages.	OP:SYSSTAT 5E15 and later

154. OFFICE DEPENDENT DATA

Topic/Purpose	Message ID/ Software Release Range
Requests that office-dependent data (ODD) backup be aborted.	ABT:ODDBKUP 5E15 and later
Requests a backup of the office-dependent data (ODD) to disk.	BKUP:ODD 5E15 and later
Clears the office-dependent data (ODD) backup schedule set by a previous BKUP:ODD message.	CLR:ODDBKUP 5E15 and later
Requests an update of a switching module's (SM) office-dependent data (ODD) to support stand-alone operation.	CNVT:STANDALONE 5E15 and later
Requests that the office dependent data (ODD) recent change (RC) log file be copied from disk to magnetic tape.	COPY:LOG-TAPE 5E15 and later
Outputs all the ODD backup scheduled requests set by the previous BKUP:ODD messages.	OP:BKUPSTAT 5E15 and later
Requests a report of the office-dependent data (ODD) availability in the administrative module (AM), switching module(s) (SMs), and communication module processor CMP(s).	OP:ODD-AM-SM 5E15 and later
Requests a report of office dependent-data (ODD) warning information in the specified processors.	OP:ODDWARN 5E15 and later
Requests that uncommitted application recent changes be backed out.	SET:BACKOUT 5E15 and later

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Perform maintenance actions on the static office-dependent data (ODD) proxy database.	ST:DBPROXY 5E15 and later
Requests that the relations RT_DNTRAN, RT_SPECRI, RTDN_MHG, and RTDNMPG be populated for new remote switching modules (RSMs).	ST:MODGRW-RSM 5E15 and later
Increases the size of physical memory allocated to the protected non-redundant database.	ST:NRODDGRW-A 5E15 - 5E16(1)
Increases the size of physical memory allocated to the protected non-redundant database.	ST:NRODDGRW-B 5E16(2) and later
Performs the blockid conversion for the redundant office-dependent data (RODD).	ST:ODDBST 5E15 and later
Requests that a new copy of office-dependent data (ODD) be created for a switching module (SM) that is being added to the switch.	ST:ODDCREAT-SM 5E15 and later
Requests that office-dependent data (ODD) files be removed from an switching module (SM) that is being removed from the office.	ST:ODDRM-SM 5E15 and later
Requests initiative of an update of all multi-module remote switching module (MMRSM) site common office dependent data (ODD) in all RSMs which are members of the MMRSM site.	ST:ODDUPD 5E15 and later
Allocates physical memory to the redundant portion of office dependent data (RODD) for the purpose of growth, provided that there is physical memory available.	ST:RODDGRW 5E15 and later
Requests an increase in the size of physical memory allocated to the unprotected (dynamic) office-dependent data (ODD).	ST:UODDGRW 5E16(2) and later
Requests an increase in the size of physical memory allocated to the unprotected (dynamic) office-dependent data (ODD).	ST:UODDGRW-SM 5E15 - 5E16(1)
Requests a graceful stop of the currently printing port list.	STP:LIST 5E15 and later
Requests that the office dependent data (ODD) evolution or double logging process be stopped.	STP:ODDEVOL 5E15 and later
Requests that the current switch on the unit specified be stopped.	STP:SW 5E15 and later

155. OFFICE NETWORK

155.1 Office Network and Timing Common Unit

Topic/Purpose	Message ID/ Software Release Range
Aborts an action on the specified office network and timing common units (ONTCCOM).	ABT:ONTCCOM 5E15 and later
Requests that the specified office network and timing common (ONTCCOM) units be diagnosed.	DGN:ONTCCOM 5E15 and later
Requests that an office network and timing complex common unit (ONTCCOM) be removed from service and placed in the "out-of-service, manual removed" (OOS MAN RMV) state.	RMV:ONTCCOM 5E15 and later
Restores office network and timing complex common (ONTCCOM) units to an in-service condition.	RST:ONTCCOM 5E15 and later
REquests that an action on the specified office network and timing complex common unit (ONTCCOM) be stopped.	STP:ONTCCOM 5E15 and later

155.2 Office Network and Timer Coupler

Topic/Purpose	Message ID/ Software Release Range
Aborts a diagnostic or conditional restore request on the specified office network and timing complex (ONTC).	ABT:ONTC 5E15 and later
Requests diagnostics on an office network and timing complex (ONTC) to determine if it is in satisfactory working order.	DGN:ONTC 5E15 and later
Inhibits the hardware error checks from being performed on the specified office network and timing complex (ONTC).	INH:HDW-ONTC 5E15 and later
Requests that an office network and timing complex (ONTC) be removed from service.	RMV:ONTC 5E15 and later

Requests a restore of the office network and timing complex (ONTC) to an in service condition.	RST:ONTC 5E15 and later
Requests that the activity of the office network and timing complex (ONTC) be switched.	SW:ONTC 5E15 and later

156. OFFICE RECORDS

Topic/Purpose	Message ID/ Software Release Range
Requests that all current processing on the on-line office records report generator be aborted.	ABT:OFR 5E15 and later
Inputs all internal operating and scheduling parameters of the online office records control process.	IN:OFR-PARM 5E15 and later
Requests the printing of all categories or one category of office record forms.	OP:OFR-CAT 5E15 and later
Requests printing of an office record form.	OP:OFR-FORM 5E15 and later
Requests a list of all output requests or all output requests of a specific type that are queued internally by the on-line office records capability and/or lists all the internal operating parameters of the on-line office records capability.	OP:OFR-STATUS 5E15 and later
Requests that any office records print message be stopped.	STP:OFR 5E15 and later

157. OFFICE-TO-OFFICE TESTING

Topic/Purpose	Message ID/ Software Release Range
Aborts the specified office-to-office (OTO) task.	ABT:OTO 5E15 and later
Requests that the office-to-office (OTO) program on analog, integrated *SLC®*, or integrated digital carrier unit (IDCU) lines be exercised to provide pre-cutover verification of cross-connect wiring and line translations during transfer from an existing in-service office to a switch office.	EX:OTO 5E15 and later
Requests a listing of the unassigned (UNA) lines, the integrated *SLC®* (ISLC) lines, and/or the integrated digital carrier unit (IDCU) lines within a specified range of directory numbers, *SLC®* line equipment numbers (SLENs), or IDCU line equipment numbers (ILENs).	OP:LISTOTO 5E15 and later

158. OFFLINE PUMP

Topic/Purpose	Message ID/ Software Release Range
Requests the offline pump status of a switching module's (SM's) peripheral units.	OP:OPUMP 5E15 and later
Requests a download of the off-line communication module processor (CMP) memory for the specified CMP from the off-line administrative module (AM) disk followed by an off-line verification.	ST:OPUMP-CMP 5E9(1) and later
Requests a download of the off-line module controller/time slot interchange (MCTSI) memory for each specified switching module (SM) from the active or off-line administrative module (AM) disk, with or without an off-line verification.	ST:OPUMP-SM 5E15 and later
Requests that the offline pump be stopped.	STP:OPUMP 5E15 and later
Requests that offline pump requests for the specified switching modules (SMs) including peripheral offline pumps be cancelled.	STP:OPUMP-SM 5E15 and later

159. OPERATING SYSTEM FOR DISTRIBUTED SWITCHING

Topic/Purpose	Message ID/ Software Release Range
Requests the Operating System for Distributed Switching (OSDS) resource monitoring utility to collect and report usage of OSDS message, process, stack, and timer control blocks.	OP:PERF 5E15 and later

159.1 Monitor

Topic/Purpose	Message ID/ Software Release Range
Requests that the Operating System for Distributed Switching (OSDS) monitor actions be allowed.	ALW:MON 5E15 and later
Requests that the specified Operating System for Distributed Switching (OSDS) monitor data collection areas be set to zero.	CLR:MON 5E15 and later
Requests that the Operating System for Distributed Switching (OSDS) monitor actions be inhibited.	INH:MON 5E15 and later
Requests that the control information of the monitor is output to the ROP or a file.	OP:MON-CTL 5E15 and later
Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the ROP or a file.	OP:MON-DSP-A 5E15 - 5E16(1)
Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the ROP or a file.	OP:MON-DSP-B 5E16(2) only
Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the ROP or a file.	OP:MON-DSP-C 5E17(1) only
Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the ROP or a file.	OP:MON-DSP-D 5E18(1) and later
Requests that the count/time data on a specific program ID or all program IDs, or output count/time data on the operating system be output to either the ROP or a file.	OP:MON-PID 5E15 and later
Requests that necessary flags and parameter values are set for the call indentification (CID) interface to the operating system for distributed switching (OSDS) monitor.	SET:MON-CID 5E15 and later
Requests that the specific data for use with the operating system for distributed switching (OSDS) monitor be initialized.	SET:MON-DATA 5E15 and later
Requests that the special monitor action flags and/or the special monitor function execution flags be set.	SET:MON-FCN 5E15 and later
Requests that data words for the timed data dump feature or special function use be initialized.	SET:MON-SPEC 5E15 and later
Requests that the monitor control flags that select "what to do" actions or "what to dump" fields be set or cleared.	SET:MON-WTD-A 5E15 - 5E16(1)
Requests that the monitor control flags that select "what to do" actions or "what to dump" fields be set or cleared.	SET:MON-WTD-B 5E16(2) only
Requests that the monitor control flags that select "what to do" actions or "what to dump" fields be set or cleared.	SET:MON-WTD-C 5E17(1) only
Requests that the monitor control flags that select "what to do" actions or "what to dump" fields be set or cleared.	SET:MON-WTD-D 5E18(1) and later
Requests that any action in progress due to an OP:MON-CTL, OP:MON-PID or OP:MON-DSP input message be stopped.	STP:OP-MON 5E15 and later

160. OPERATOR SERVICES POSITION SYSTEM

Topic/Purpose	Message ID/ Software Release Range
Requests a listing of the external database (XDB) multi-line hunt group (MLHG).	OP:OSPS 5E15 and later
Requests the removal of an operator services position system (OSPS) port (OSPSPORT) from service by placing it in the specified out-of-service (OOS) status.	RMV:OSPSPORT 5E15 and later
Requests the restoration of an operator services position system (OSPS) port (OSPSPORT) to service by deleting the specified out-of-service (OOS) status.	RST:OSPSPORT 5E15 and later
Requests that the Hotel Billing Information System (HOBIS) or hotel billing information center (HOBIC) printer be tested by printing a text string (THE QUICK BROWN FOX JUMPED OVER	TST:OSPS 5E15 and later

THE LAZY DOGS.$#: /-'0123456789,".	

160.1 Digital Subscriber Line

Topic/Purpose	Message ID/ Software Release Range
Requests a single process purge (SPP) and reinitialization of a terminal process in a switching module (SM) that controls the named Operator Services Position System (OSPS) digital subscriber line (DSL).	INIT:DSL 5E15 and later
To test the specified integrated service digital network (ISDN) basic rate interface (BRI) using digital, analog or metallic techniques [digital subscriber line (DSL) and BRI are used interchangeably in this message].	TST:DSL 5E15 and later

161. OPTICAL CARRIER LEVEL 3

Topic/Purpose	Message ID/ Software Release Range
Requests that the currently executing maintenance action on an optical carrier - level 3 (OC3) be aborted.	ABT:OC3 5E16(1) and later
Requests that the currently executing maintenance action on an optical carrier - level 3 concatenated (OC3C) facility be aborted.	ABT:OC3C 5E16(2) and later
Requests that the manually set automatic protection switch (APS) state of an optical carrier - level 3 (OC3) facility be cleared.	CLR:OC3 5E16(1) and later
Requests that the manually set automatic protection switch (APS) state of an optical carrier - level 3 concatenated (OC3C) facility be cleared.	CLR:OC3C 5E16(2) and later
Requests automatic protection switching (APS) status of optical carrier - level 3 (OC3) or optical carrier - level 3 concatenated (OC3C) circuits for optical interface units (OIUs) in a switching module (SM) or a range of SMs.	OP:APSSTAT 5E16(1) and later
Requests that an optical carrier - level 3 (OC3) be restored to service.	RST:OC3 5E16(1) and later
Requests that an optical carrier - level 3 concatenated (OC3C) facility be restored to service.	RST:OC3C 5E16(2) and later
.P Requests that the automatic protection switch (APS) state of an optical carrier - level 3 (OC3) be set to a higher priority state.	SET:OC3 5E16(1) and later
Requests that the automatic protection switch (APS) state of an optical carrier - level 3 concatenated (OC3C) facility be set to a higher priority state.	SET:OC3C 5E16(2) and later
Requests that the currently executing maintenance action on an optical carrier - level 3 (OC3) be stopped.	STP:OC3 5E16(1) and later
Requests that the currently executing maintenance action on an optical carrier - level 3 concatenated (OC3C) facility be stopped.	STP:OC3C 5E16(2) and later

162. OPTICAL FACILITY INTERFACE

Topic/Purpose	Message ID/ Software Release Range
Requests that the currently executing maintenance action on an optical facility interface (OFI) be aborted.	ABT:OFI 5E16(1) and later
Requests that diagnostics be executed on an optical facility interface (OFI).	DGN:OFI 5E16(1) and later
Requests that the contents of one more sequential memory locations in the specified optical facility interface (OFI) be dumped.	DUMP:UT-OFI 5E16(1) and later
Requests that an unconditional call to a function using parameters in the specified optical facility interface (OFI) be executed.	EXC:UT-OFI 5E16(1) and later
Requests that hardware checks be inhibited on an optical facility interface (OFI).	INH:HDW-OFI 5E16(1) and later
Requests that a value(s) be loaded into the memory of the specified optical facility interface (OFI).	LOAD:UT-OFI 5E61 and later
Requests the output of the active user datagram protocol (UDP) ports for a specific optical	OP:NETSTAT

interface unit (OIU) optical facility interface (OFI) protection group (PG).	5E16(2) and later
Requests that an optical carrier - level 3 (OC3) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:OC3 5E16(1) and later
Requests that an optical carrier - level 3 concatenated (OC3C) facility be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:OC3C 5E16(2) and later
Requests that an optical facility interface (OFI) be restored to service.	RST:OFI 5E16(1) and later
Requests that the currently executing maintenance action on an optical facility interface (OFI) be stopped.	STP:OFI 5E16(1) and later

163. OPTICAL INTERFACE UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests that the currently executing maintenance action on an optical interface unit (OIU) point to point protocol link (PPPLK) be aborted.	ABT:PPPLK 5E16(2) and later
Requests inventory data be printed for circuit packs residing on an optical interface unit (OIU) or access interface unit (AIU).	OP:INVEN-A 5E16(2) - 5E19(1)
Requests inventory data be printed for circuit packs residing on an optical interface unit (OIU), access interface unit (AIU) or packet switching unit (PSU).	OP:INVEN-B 5E20(1) and later
Requests the output of the active user datagram protocol (UDP) ports for a specific optical interface unit (OIU) optical facility interface (OFI) protection group (PG).	OP:NETSTAT 5E16(2) and later
Requests output of the current day and previous day automatic protection switch count for optical interface unit (OIU) protection groups.	OP:PSC 5E16(1) and later
Requests that an optical facility interface (OFI) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:OFI 5E16(1) and later
Requests that an optical interface unit (OIU) point to point protocol link (PPPLK) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:PPPLK 5E16(2) and later
Requests that an optical interface unit (OIU) point to point protocol link (PPPLK) be restored to service.	RST:PPPLK 5E16(2) and later
Requests that the currently executing maintenance action on an optical interface unit (OIU) point to point protocol link (PPPLK) be stopped.	STP:PPPLK 5E16(2) and later

164. ORIGINATING LINE NUMBER SCREENING

Topic/Purpose	Message ID/ Software Release Range
Requests that a originating line number screening (OLNS) query be sent to the line information database (LIDB) to verify its operation.	TST:OLNS 5E15 and later

165. OUT-OF-SERVICE UNIT

Topic/Purpose	Message ID/ Software Release Range
Copies a specific file from an out-of-service (OOS) disk to an active system disk.	COPY:OOSDISK 5E9(1) and later
Requests that the interprocess message switch (IMS) measurements inhibit flag be changed and displayed.	INH:IMSMEAS 5E15 and later
Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request.	OP:LIST-A 5E15 only
Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request.	OP:LIST-B 5E16(1) and later
Requests a listing of the unassigned (UNA) lines, the integrated *SLC®* (ISLC) lines, and/or the integrated digital carrier unit (IDCU) lines within a specified range of directory numbers, *SLC®* line equipment numbers (SLENs), or IDCU line equipment numbers (ILENs).	OP:LISTOTO 5E15 and later

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Requests a list of all currently out-of-service (OOS) administrative module (AM) hardware units.	OP:OOS 5E15 and later
Requests the removal of a data link from service by placing it in the specified out-of-service (OOS) status.	RMV:DATALINK 5E15 and later
Requests that a line be removed from service by the addition of a specified out-of-service (OOS) status.	RMV:LINE 5E15 and later
Requests the restoration of a data link to service by deletion of the specified out-of-service (OOS) status.	RST:DATALINK 5E15 and later
Requests that a line be restored to service by deleting the specified out-of-service (OOS) condition.	RST:LINE 5E15 and later
Requests that active printing tasks initiated by the OP:LISTOTO input message be stopped.	STP:LISTOTO 5E15 and later

166. OUTPUT MESSAGE DATA BASE

Topic/Purpose	Message ID/ Software Release Range
Requests the actions be aborted on a network interface.	ABT:PAG 5E16(1) and later
Requests that the active (incore) output message database (OMDB) be refreshed from the OMDB disk file.	ACTV:OMDB 5E15 and later
Applies previous updates to the new copy of the output message data base (OMDB) disk file during field update.	APPLY:OMDB 5E15 and later
Requests that the message text, message class, and alarm level from an OMDB entry be output for the given key or keys.	OP:OMDB 5E15 and later
Removes call processing from a network interface on a packet access gateway (PAG).	RMV:PAG 5E16(1) and later
Requests a conditional or unconditional removal of a quad-link packet switch (QLPS) from service.	RMV:QLPS 5E15 and later
Restores call processing on a network interface on a packet access gateway (PAG).	RST:PAG 5E16(1) and later
Requests the actions be stopped on a network interface.	STP:PAG 5E16(1) and later
Requests that the message class or the alarm level for either one or a list of message keys in the output message data base (OMDB) disk file be updated.	UPD:OMDB 5E15 and later

167. OVERLOAD STATUS

Topic/Purpose	Message ID/ Software Release Range
Requests an overload status report.	OP:OVRLD-AM-SM 5E15 and later

168. PACKET CONTROL FUNCTION

Topic/Purpose	Message ID/ Software Release Range
Requests the status of a packet data serving node (PDSN) or all PDSNs on a packet control function (PCF).	OP:PCF-A 5E17(1) - 5E18(1)
Requests the status of a packet data serving node (PDSN) or all PDSNs on a packet control function (PCF).	OP:PCF-B 5E19(1) and later
Stop currently printing packet data serving node (PDSN) status list.	STP:PCF 5E17(1) and later

169. PACKET INTERFACE

Topic/Purpose	Message ID/ Software Release

	Range
Requests that generic utility WHEN clauses in the packet interface unit (PI) be allowed or enabled.	ALW:UT-MCTSI-PI 5E15 and later
Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet interface (PI) unit be removed.	CLR:UT-MCTSI-PI 5E15 and later
Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the packet interface (PI) unit and optionally perform specific operations.	COPY:UT-MCTSI-PI 5E15 and later
Requests the conditional ELSE input message; which is used with the IF input message to perform any packet interface (PI) unit generic utility input messages following it, provided the IF input message comparison is not true (refer to the IF:UT-MCTSI-PI input message).	ELSE:UT-MCTSI-PI 5E15 and later
Requests that a series of packet interface unit (PI) generic utility input messages be ended.	END:UT-MCTSI-PI 5E15 and later
Requests the end of an IF-ELSE statement in the packet interface (PI) unit and must be used in combination with the IF:UT-MCTSI-PI input message.	IF:UT-MCTSI-PE 5E15 and later
Requests that a constant or variable in a packet interface (PI) unit memory be compared against another constant or variable in the PI memory.	IF:UT-MCTSI-PI 5E15 and later
Requests that a specific generic utility WHEN clause in the packet interface (PI) unit, or all such active clauses, be inhibited.	INH:UT-MCTSI-PI 5E15 and later
Requests a report on the status of one or all of the generic utilities WHEN clauses in the specified packet interface unit (PI).	OP:UT-MCTSI-PI 5E15 and later
Requests a test of the communication between a source protocol handler (PH)/packet interface (PI) and destination PH/PI.	TST:PHPATH-A 5E18(1) - 5E19(1)
Requests a test of the communication between a source protocol handler (PH)/packet interface (PI) and destination PH/PI.	TST:PHPATH-B 5E20(1) and later
Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet interface unit (PI).	WHEN:UT-MCTSI-PI 5E15 and later

170. PACKET INTERNET GROPER

Topic/Purpose	Message ID/ Software Release Range
The packet internet groper (PING) is used to verify a transmission control protocol/internet protocol (TCP/IP) connection between the source internet protocol (SRCIP) address and the internet protocol destination (IPDEST) address.	EXC:PING-A 5E15 - 5E16(1)
The packet internet groper (PING) is used to verify a transmission control protocol/internet protocol (TCP/IP) connection between the source internet protocol (SRCIP) address and the internet protocol destination (IPDEST) address.	EXC:PING-B 5E16(2) and later

171. PACKET SWITCH UNIT

Topic/Purpose	Message ID/ Software Release Range
Allows hardware checks on a packet switch unit (PSU) common controller (COM).	ALW:HDW-PSUCOM-A 5E15 only
Allows hardware checks on a packet switch unit (PSU) common controller (COM).	ALW:HDW-PSUCOM-B 5E16(1) and later
Allows hardware checks on a packet switch unit (PSU) protocol handler (PH).	ALW:HDW-PSUPH-A 5E15 only
Allows hardware checks on a packet switch unit (PSU) protocol handler (PH).	ALW:HDW-PSUPH-B 5E16(1) and later
Requests the printing of the PSU2E processor debugging information associated with the input shell command string.	EXC:UT-PSUCOM-A 5E18(1) - 5E19(1)
Requests the printing of the PSU2E or IPS processor debugging information associated with the input shell command string.	EXC:UT-PSUCOM-B 5E20(1) and later
Requests that a list of the version identifiers be printed for the non-volatile memory (NVMEM) firmware and hardware images that reside on the control fanout, version 3 (CF3) and packet fanout, version 3 (PF3) circuits boards in the enhanced packet switching unit, version 2	OP:NVMEM-PSUCOM-A 5E18(1) - 5E19(1)

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(PSU2E) common (COM) controller(s).	
Requests that a list of the version identifiers be printed for the non-volatile memory (NVMEM) firmware and hardware images that reside on the control fanout, and packet fanout circuits boards in the packet switching unit (PSU) common (COM) controller(s).	OP:NVMEM-PSUCOM-B 5E20(1) and later
Requests that a list of the version identifiers be printed for the non-volatile memory (NVMEM) for protocol handler for voice, version 7 (PHV7) boards.	OP:NVMEM-PSUPH 5E21(1) and later
Requests that the specified software fault be inserted into a packet switch unit (PSU) protocol handler (PH).	TST:PSUPH-FAULT-A 5E15 only
Requests that the specified software fault be inserted into a packet switch unit (PSU) protocol handler (PH).	TST:PSUPH-FAULT-B 5E16(1) and later

171.1 Packet Switch Unit Common Controller

Topic/Purpose	Message ID/ Software Release Range
To abort actions on either a packet switch unit (PSU), common controller (COM).	ABT:PSUCOM-A 5E15 only
To abort actions on either a packet switch unit (PSU) common controller (COM).	ABT:PSUCOM-B 5E16(1) and later
Clears the forced condition from the packet switch unit (PSUCOM) specified.	CLR:PSUCOM-A 5E15 only
Clears the forced condition from the packet switch unit (PSUCOM) specified.	CLR:PSUCOM-B 5E16(1) and later
Requests that a packet switch unit (PSU) common (COM) controller be diagnosed.	DGN:PSUCOM-A 5E15 only
Requests that a packet switch unit (PSU) common (COM) controller be diagnosed.	DGN:PSUCOM-B 5E16(1) and later
Exercises (interactively diagnoses) a packet switch unit (PSU) common controller (COM).	EX:PSUCOM-A 5E15 only
Exercises (interactively diagnoses) a packet switch unit (PSU) common controller (COM).	EX:PSUCOM-B 5E16(1) and later
Inhibits hardware checks on a packet switch unit (PSU) common controller (COM).	INH:HDW-PSUCOM-A 5E15 only
Inhibits hardware checks on a packet switch unit (PSU) common controller (COM).	INH:HDW-PSUCOM-B 5E16(1) and later
Request to output the detailed status of a packet switching unit common controller (PSUCOM).	OP:ST-PSUCOM 5E21(1) and later
Requests that a packet switch unit (PSU) common controller (COM) be removed from service.	RMV:PSUCOM-A 5E15 only
Requests that a packet switch unit (PSU) common controller (COM) be removed from service.	RMV:PSUCOM-B 5E16(1) and later
Requests that a packet switch unit common controller (PSUCOM) be restored to service.	RST:PSUCOM-A 5E15 and later
Requests that a packet switch unit common controller (PSUCOM) be restored to service.	RST:PSUCOM-B 5E16(1) and later
Requests that the specified side of the packet switch unit (PSUCOM) be forced to the active state.	SET:PSUCOM-A 5E15 only
Requests that the specified side of the packet switch unit (PSUCOM) be forced to the active state.	SET:PSUCOM-B 5E16(1) - 5E17(1)
Requests that the specified side of the packet switch unit (PSUCOM) be forced to the active state.	SET:PSUCOM-C 5E18(1) and later
Requests that actions on a packet switch unit (PSU) common controller (COM) be stopped.	STP:PSUCOM-A 5E15 only
Requests that actions on a common controller (COM) be stopped.	STP:PSUCOM-B 5E16(1) and later
Requests that the active/standby states of the packet switch unit (PSU) common controllers (COM) be switched (interchanged).	SW:PSUCOM-A 5E15 and later
Requests that the active/standby states of the packet switch unit (PSU) common controllers	SW:PSUCOM-B

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(COM) be switched (interchanged).	5E16(1) and later

171.2 Packet Switch Unit Ethernet Link

Topic/Purpose	Message ID/ Software Release Range
Format 1 converts from a given ethernet link (PSELNK) to the associated protocol handlers for ethernet (PHE) and the channel group associated to it.	OP:CONV-PSELNK 5E16(1) and later
An ethernet link is defined by the SM, PSU to which it is connected and link number.	OP:ST-PSELNK 5E16(1) and later

171.3 Packet Switch Unit Link

Topic/Purpose	Message ID/ Software Release Range
Requests that the manually set automatic protection switch (APS) state of the packet switch unit (PSU) link (PSLNK) be cleared.	CLR:PSLNK-A 5E15 only
Requests that the manually set automatic protection switch (APS) state of the packet switch unit (PSU) link (PSLNK) be cleared.	CLR:PSLNK-B 5E16(1) and later
Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.	OP:CONV-PSLNK-A 5E15 only
Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.	OP:CONV-PSLNK-B 5E16(1) only
Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.	OP:CONV-PSLNK-C 5E16(2) and later
Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.	OP:ST-PSLNK-A 5E15 and later
Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.	OP:ST-PSLNK-B 5E16(1) and later
Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) link (PSLNK) be set to a higher priority state.	SET:PSLNK-A 5E15 only
Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) link (PSLNK) be set to a higher priority state.	SET:PSLNK-B 5E16(1) and later
Request that the active/standby states of the packet switch unit (PSU) link (PSLNK) channels be switched.	SW:PSLNK-A 5E15 only
Request that the active/standby states of the packet switch unit (PSU) link (PSLNK) channels be switched.	SW:PSLNK-B 5E16(1) and later
Requests an asynchronous transfer mode (ATM) level loop back test between two end points of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6).	TST:PSLNK-A 5E15 only
Requests an asynchronous transfer mode (ATM) level loop back test between two end points of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6).	TST:PSLNK-B 5E16(1) - 5E16(2)
Requests an asynchronous transfer mode (ATM) level loop back test between two endpoints of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6).	TST:PSLNK-C 5E17(1) only
Requests an asynchronous transfer mode (ATM) level loop back test between two endpoints of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 7).	TST:PSLNK-D 5E18(1) - 5E19(1)
Requests an asynchronous transfer mode (ATM) level loop back test between two endpoints	TST:PSLNK-E

of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 7) or between 2 endpoints in an internet protocol (IP) network (formats 4 through 7).	5E20(1) and later

171.4 Packet Switch Unit Peripheral Interface Data Bus

Topic/Purpose	Message ID/ Software Release Range
Requests that a specified action on a packet switch unit (PSU) peripheral interface data bus (PIDB) be aborted.	ABT:PSUPIDB 5E15 and later
Requests that a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) pair be removed from service.	RMV:PSUPIDB 5E15 and later
Requests that a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) pair be restored to service.	RST:PSUPIDB 5E15 and later
Requests that actions on a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) be stopped.	STP:PSUPIDB 5E15 and later

171.5 Packet Switch Unit Protocol Handler

Topic/Purpose	Message ID/ Software Release Range
To abort actions on either a packet switch unit (PSU) protocol handler (PH).	ABT:PSUPH-A 5E15 only
To abort actions on either a packet switch unit (PSU) protocol handler (PH).	ABT:PSUPH-B 5E16(1) and later
Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.	ALW:UT-PSUPH-A 5E15 only
Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.	ALW:UT-PSUPH-B 5E16(1) and later
Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.	CLR:UT-PSUPH-A 5E15 only
Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.	CLR:UT-PSUPH-B 5E16(1) and later
Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.	COPY:UT-PSUPH-A 5E15 only
Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.	COPY:UT-PSUPH-B 5E16(1) - 5E20(1)
Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.	COPY:UT-PSUPH-C 5E21(1) and later
Requests that a packet switch unit (PSU) protocol handler (PH) be diagnosed.	DGN:PSUPH-A 5E15 only
Requests that a packet switch unit (PSU) protocol handler (PH) be diagnosed.	DGN:PSUPH-B 5E16(1) and later
Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.	DUMP:UT-PSUPH-A 5E15 only
Format 1 requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.	DUMP:UT-PSUPH-B 5E16(1) - 5E20(1)
Format 1 requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.	DUMP:UT-PSUPH-C 5E21(1) and later
Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true.	ELSE:UT-PSUPH-A 5E15 only
Requests that the conditional ELSE input message used with the IF input message perform	ELSE:UT-PSUPH-B

any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true.	5E16(1) and later
Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended (Refer to the input messages listed in the **REFERENCES** section).	END:UT-PSUPH-A 5E15 only
Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended.	END:UT-PSUPH-B 5E16(1) and later
Exercises (interactively diagnoses) a packet switch unit (PSU) protocol handler (PH).	EX:PSUPH-A 5E15 only
Exercises (interactively diagnoses) a packet switch unit (PSU) protocol handler (PH).	EX:PSUPH-B 5E16(1) and later
Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed.	EXC:UT-PSUPH-A 5E15 only
Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed.	EXC:UT-PSUPH-B 5E16(1) - 5E20(1)
Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed.	EXC:UT-PSUPH-C 5E21(1) and later
Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.	IF:UT-PSUPH-A 5E15 only
Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.	IF:UT-PSUPH-B 5E16(1) - 5E20(1)
Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.	IF:UT-PSUPH-C 5E21(1) and later
Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.	IF:UT-PSUPH-END-A 5E15 only
Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.	IF:UT-PSUPH-END-B 5E16(1) and later
Inhibits hardware checks on a packet switch unit (PSU) protocol handler (PH).	INH:HDW-PSUPH-A 5E15 only
Inhibits hardware checks on a packet switch unit (PSU) protocol handler (PH).	INH:HDW-PSUPH-B 5E16(1) and later
Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited.	INH:UT-PSUPH-A 5E15 only
Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited.	INH:UT-PSUPH-B 5E16(1) and later
Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH).	LOAD:UT-PSUPH-A 5E15 only
Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH).	LOAD:UT-PSUPH-B 5E16(1) and later
Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH).	OP:UT-PSUPH-A 5E15 only
Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH).	OP:UT-PSUPH-B 5E16(1) and later
Requests that a packet switch unit (PSU) protocol handler (PH) be removed from service.	RMV:PSUPH-A 5E15 only
Requests that a packet switch unit (PSU) protocol handler (PH) be removed from service.	RMV:PSUPH-B 5E16(1) and later
Requests that a packet switch unit (PSU) protocol handler (PH) be restored to service.	RST:PSUPH-A 5E15 only
Requests that a packet switch unit (PSU) protocol handler (PH) be restored to service.	RST:PSUPH-B 5E16(1) and later
Requests that actions on a packet switch unit (PSU) protocol handler (PH) be stopped.	STP:PSUPH-A 5E15 only
Requests that actions on a packet switch unit (PSU) protocol handler (PH) be stopped.	STP:PSUPH-B 5E16(1) and later
Requests that the active/standby states of the packet switch unit (PSU) protocol handlers (PH) be switched.	SW:PSUPH 5E15 and later
Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).	WHEN:UT-PSUPH-A 5E15 only

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).	WHEN:UT-PSUPH-B 5E16(1) - 5E20(1)
Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).	WHEN:UT-PSUPH-C 5E21(1) and later

172. PARTITIONS

Topic/Purpose	Message ID/ Software Release Range
Requests that partitions on a specified disk be cleared (initialized with zeroes).	CLR:PTN 5E15 and later
Requests that one set of disk partitions be copied into a corresponding set of partitions.	COPY:PTN-ALL 5E15 and later
Requests verification of office routing translations, used in call processing, from the originating line or trunk to the terminating line or trunk.	VFY:OFC-A 5E15 - 5E16(1)
Requests verification of office routing translations, used in call processing, from the originating line or trunk to the terminating line or trunk.	VFY:OFC-B 5E16(2) and later

173. PERFORMANCE MONITORING

Topic/Purpose	Message ID/ Software Release Range
Allows the initiation of external performance monitoring (PM) sessions over one or more packet switch unit (PSU) asynchronous transfer mode (ATM) links (PSALNK).	ALW:EXTPM 5E17(1) and later
Requests that performance monitoring (PM) session be allowed.	ALW:PM 5E17(1) and later
Deactivates all active external performance monitoring (PM) sessions and inhibits the initiation of future external PM sessions over one or more packet switch unit (PSU) asynchronous transfer mode (ATM) links (PSALNK).	INH:EXTPM 5E17(1) and later
Requests that performance monitoring (PM) session be inhibited.	INH:PM 5E17(1) and later
Requests a list of all active performance monitoring (PM) sessions established internally or externally.	OP:LIST-FLOWACT 5E17(1) and later

174. PERIODIC PULSE METERING CIRCUIT

Topic/Purpose	Message ID/ Software Release Range
Requests that a specified action on the periodic pulse metering circuit (PPMTC) be aborted.	ABT:PPMTC 5E15 and later

175. PERIODIC SIGNALING LINK TEST

Topic/Purpose	Message ID/ Software Release Range
Requests the inhibit for the periodic signaling link test (PSLT).	INH:CCS-PSLT 5E15 and later

176. PERIPHERAL CONTROL AND TIMING

176.1 Peripheral Control and Timing Date Exchanger

Topic/Purpose	Message ID/ Software Release Range

Requests that actions be aborted on a peripheral control and timing data exchanger (PCTDX).	ABT:PCTDX 5E15 and later
Allows hardware checks on a peripheral control and timing data exchanger (PCTDX).	ALW:HDW-PCTDX 5E15 and later
Requests that diagnostics be executed on a peripheral control and timing data exchanger (PCTDX).	DGN:PCTDX 5E15 and later
Inhibits hardware checks on a peripheral control and timing data exchanger (PCTDX).	INH:HDW-PCTDX 5E15 and later
Requests that a peripheral control and timing data exchanger (PCTDX) be removed from service.	RMV:PCTDX 5E15 and later
Requests that a peripheral control and timing data exchanger (PCTDX) be restored to service.	RST:PCTDX 5E15 and later
Requests the actions be stopped on a peripheral control and timing data exchanger (PCTDX).	STP:PCTDX 5E15 and later

176.2 Peripheral Control and Timing Link

Topic/Purpose	**Message ID/ Software Release Range**
Aborts the currently executing action on the peripheral control and timing (PCT) link.	ABT:PLTLK 5E15 and later
Requests that hardware checks be allowed on a peripheral control and timing (PCT) line and trunk unit link.	ALW:HDW-PLTLK 5E15 and later
Removes and diagnoses a specified peripheral control and timing (PCT) link.	DGN:PLTLK tE15 and later
Requests that hardware checks be inhibited on a peripheral control and timing (PCT) line and trunk unit link.	INH:HDW-PLTLK 5E15 and later
Requests that a peripheral control and timing (PCT) line and trunk unit link be removed from service.	RMV:PLTLK 5E15 and later
Requests that a peripheral control and timing PCT) line and trunk unit link (PLTLK) be restored to service.	RST:PLTLK 5E15 and later
Stops the currently executing action on a peripheral control and timing (PCT) line and trunk unit link.	STP:PLTLK 5E15 and later
Requests that the active/standby states of a peripheral control and timing facility interface (PCTFI) be switched (interchanged).	SW:PLTLK 5E15 and later

176.3 Peripheral Control and Timing Link Tributary

Topic/Purpose	**Message ID/ Software Release Range**
Requests that maintenance actions be aborted on a peripheral control and timing (PCT) link tributary.	ABT:TRIB 5E15 and later
Removes a peripheral control and timing (PCT) link tributary (TRIB) from service either conditionally (by waiting for it to become idle), or unconditionally, by pre-empting the current user.	RMV:TRIB 5E15 and later
Requests that a peripheral control and timing (PCT) link tributary (TRIB) is restored to service.	RST:TRIB 5E15 and later
Requests that maintenance actions be stopped on a peripheral control and timing (PCT) line and trunk unit link tributary (TRIB).	STP:TRIB 5E15 and later

177. PLANT MEASUREMENTS COMMON REPORT

Topic/Purpose	**Message ID/ Software Release Range**
Requests the various plant measurements common reports, detailing system performance statistics.	OP:PMCR 5E15 and later

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178. PLANT REPORT - 24 HOUR

Topic/Purpose	Message ID/ Software Release Range
Requests that the printing of the regularly scheduled 24-hour plant report to the ROP be allowed.	ALW:PLNT24-A 5E15 - 5E16(2)
Requests that the printing of the regularly scheduled 24-hour plant report to the ROP be allowed.	ALW:PLNT24-B 5E17(1) and later
Requests that the printing of the hourly plant report be allowed.	ALW:PLNTHR 5E15 and later
Requests that the regularly scheduled 24-hour plant report be inhibited from printing to the ROP.	INH:PLNT24-A 5E15 - 5E16(2)
Requests that the regularly scheduled 24-hour plant report be inhibited from printing to the ROP.	INH:PLNT24-B 5E17(1) and later
Requests that the printing of the hourly plant report be inhibited.	INH:PLNTHR 5E15 and later
Requests the last complete hourly plant report.	OP:PLNTHR 5E15 and later
Requests that the monthly plant report be obtained at a time other than the regularly scheduled time.	OP:PLNTMO 5E15 and later
Requests the status (inhibited or allowed) of the hourly plant report.	REPT:PLNTHR 5E15 and later

179. PORTS

Topic/Purpose	Message ID/ Software Release Range
Requests the output of the print mode, overload status, and initialization summary information for the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or packet switching unit protocol handler (PSUPH).	OP:ST 5E15 and later
Requests the status of each connected administrative module (AM) message port.	OP:ST-PORTS 5E15 and later
Requests that all port camp-on activity be stopped.	STP:CAMP 5E15 and later
Requests a switch of the maintenance teletypewriter controller's (MTTYC's) ROP and/or maintenance teletypewriter (MTTY) to the alternate MTTYC and a switch of the active/standby status of the MTTY and/or ROP.	SW:PORTSW 5E15 and later

180. POSTMORTEM

Topic/Purpose	Message ID/ Software Release Range
Requests a list of active protocol monitoring (PM) sessions.	OP:PM 5E15 and later
Requests the output of the port processor's (PP's) postmortem reports saved in the specified module controller time slot interchanger (MCTSI).	OP:PM-PP-MCTSI 5E15 and later
Requests a copy of the specified postmortems from the specified switching module (SM).	OP:PM-SM 5E15 and later
Requests a copy of the postmortem for the digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC), the integrated digital carrier unit (IDCU), the integrated service line unit common controller (ISLUCC) or the transmission multiplexer (TMUX).	OP:POSTMORT-A 5E15 - 5E16(1)
Requests a copy of the postmortem for the digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC), the integrated digital carrier unit (IDCU), the integrated service line unit common controller (ISLUCC), the transmission multiplexer (TMUX), or the optical facility interface (OFI).	OP:POSTMORT-B 5E16(2) and later
Requests a copy of the postmortem for the communication module processor (CMP).	OP:POSTMORT-CMP

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	5E15 and later
Requests the release (unlocking) of the port processor's (PP's) postmortem report save area of the specified module controller time slot interchanger (MCTSI) to allow the capture of the next autonomous packet switching unit protocol handler (PSUPH) or packet interface (PI) initialization postmortem reports.	RLS:PM-PP-MCTSI 5E15 and later
Releases the postmortem save area.	RLS:PM-SM 5E15 and later
Requests the release of the postmortem save area.	RLS:POSTMORT 5E15 and later
Requests that a specific integrated services digital network (ISDN) channel protocol monitoring (PM) session or all protocol monitoring sessions be stopped.	STP:PM-A 5E15 only
Requests that a specific integrated services digital network (ISDN) channel protocol monitoring (PM) session or all protocol monitoring sessions be stopped.	STP:PM-B 5E16(1) and later
Requests a change to the print mode of the specified packet interface (PI) and/or packet switching unit protocol handler (PSUPH).	CHG:PRNTMODE-A 5E15 - 5E16(1)
Requests a change to the print mode of the specified packet interface (PI) and/or packet switching unit protocol handler (PSUPH).	CHG:PRNTMODE-B 5E16(2) and later
Request that an the specified file type of a designated software update (SU) be printed to the ROP.	UPD:PRINT 5E15 and later

181. PROCESSES

Topic/Purpose	Message ID/ Software Release Range
Requests that a task be executed as either a kernel or supervisor process.	EXC:ENVIR-PROC 5E15 and later
Requests that a task be executed as a user process.	EXC:ENVIR-UPROC 5E15 and later
Requests a report of the size of a relation residing on an operational processor or range of processors.	OP:RELSPACE 5E15 and later
Requests the status of active processes by specific class.	OP:ST-PROC 5E15 and later
Requests that any specified process be stopped.	STOP:EXC-ANY 5E15 and later
Requests that a user process specified either by ID number or by pathname be stopped.	STOP:EXC-USER 5E15 and later
Requests that the current exercise on the unit specified be stopped.	STP:EX 5E15 and later
Requests that any process be stopped.	STP:EXC-ANY 5E15 and later
Requests that a user process specified either by ID number or by pathname be stopped.	STP:EXC-USER 5E15 and later

182. PROTOCOL

182.1 Protocol Circuit

Topic/Purpose	Message ID/ Software Release Range
Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.	EXC:PM-A 5E15 only
Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.	EXC:PM-B 5E16(1) - 5E17(1)
Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported	EXC:PM-C 5E18(1) - 5E19(1)

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on the interface.	
Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.	EXC:PM-D 5E20(1) and later

182.2 Protocol Handler

Topic/Purpose	Message ID/ Software Release Range
To request a trivial file transfer protocol (TFTP) server to run on a protocol handler (PH).	ALW:TFTP 5E21(1) and later
To request to inhibit a trivial file transfer protocol (TFTP) server running on a protocol handler (PH).	INH:TFTP 5E21(1) and later
To report protocol handler (PH) group (PHGRP) conversion data.	OP:CONV-PHGRP 5E19(1) and later
Requests the internet protocol (IP) connectivity status for protocol handler (PH) for ethernet version (PHEs) for both IP soft handoff (SHO) and network PH (NPH) PH group (PHGRP) on an intelligent packet switch (IPS).	OP:IPCON 5E20(1) and later
Requests the user datagram port (UDP) connections information of a specified network protocol handler (NPH) group.	OP:NPH 5E20(1) and later
A protocol handler (PH) group (PHGRP) is defined by a mated pair of ethernet PHs.	OP:ST-PHGRP 5E19(1) and later
Requests the status of one or more near endpoint(s) and service selection for the associated session initiation protocol for telephony protocol handler (SIP-T PH) or the status of one or more association(s) and the associated paths.	OP:ST-SCTP 5E16(2) and later
To check the status of a trivial file transfer protocol (TFTP) server running on a protocol handler (PH).	OP:TFTP 5E21(1) and later
Requests that the currently printing user datagram port (UDP) connections information list be stopped.	STP:NPH 5E20(1) and later
Request that the serving/nonserving states of a protocol handler (PH) group (PHGRP) can be switched.	SW:PHGRP 5E19(1) and later
Requests a test of the communication between a source protocol handler (PH)/packet interface (PI) and destination PH/PI.	TST:PHPATH-A 5E18(1) - 5E19(1)
Requests a test of the communication between a source protocol handler (PH)/packet interface (PI) and destination PH/PI.	TST:PHPATH-B 5E20(1) and later

182.3 Protocol Monitoring

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the protocol circuit (PROTO) be aborted at the specified locations.	ABT:PROTO 5E15 and later
Requests that the protocol (PROTO) circuit be diagnosed to determine whether it is in satisfactory working order.	DGN:PROTO 5E15 and later
Exercises the protocol circuit to determine whether it is in satisfactory working order.	EX:PROTO 5E15 and later
Requests that the protocol circuit (PROTO) be removed from service.	RMV:PROTO 5E15 and later
Restores the protocol (PROTO) circuit to the active state conditionally or unconditionally.	RST:PROTO 5E15 and later
Requests that actions on the protocol circuit (PROTO) at the specified location be stopped.	STP:PROTO 5E15 and later

183. PUMP PERIPHERAL CONTROLLER

Topic/Purpose	Message ID/ Software Release Range
Aborts actions on the specified pump peripheral controller (PPC).	ABT:PPC

	5E15 and later
Requests that hardware error checks be allowed to be performed on the specified pump peripheral controller (PPC).	ALW:HDW-PPC 5E15 and later
Requests diagnostics on a pump peripheral controller (PPC) to determine if it is in satisfactory working order.	DGN:PPC 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.	DUMP:UT-PPC 5E15 and later
Requests that the pump peripheral controller (PPC) be exercised in an interactive mode.	EX:PPC 5E15 and later
Requests that an unconditional call to a function using parameters in the specified pump peripheral controller (PPC) be executed.	EXC:UT-PPC 5E15 and later
Inhibits the hardware error checks performed on the specified pump peripheral controller (PPC).	INH:HDW-PPC 5E15 and later
Requests that a value be loaded into the memory of the specified pump peripheral controller (PPC).	LOAD:UT-PPC 5E15 and later
Requests that the specified pump peripheral controller (PPC) be removed from service.	RMV:PPC 5E15 and later
Restores the specified pump peripheral controller (PPC) to service.	RST:PPC 5E15 and later
Requests that actions on the specified pump peripheral controller (PPC) be stopped.	STP:PPC 5E15 and later
Requests that the activity of the pump peripheral controller (PPC) be switched.	SW:PPC 5E15 and later

184. QUAD-LINK PACKET SWITCH

Topic/Purpose	**Message ID/ Software Release Range**
Requests that actions on a quad-link packet switch (QLPS) be aborted.	ABT:QLPS 5E15 and later
Requests diagnosis of a quad-link packet switch (QLPS) to determine whether it is in satisfactory working order.	DGN:QLPS 5E15 and later
Requests interactive diagnosis of a quad-link packet switch (QLPS).	EX:QLPS 5E15 and later
Requests a report of the status of quad-link packet switch (QLPS) pipes (QPIPEs), QLPS communication links (QLNKs), and inter-switching module QLNKs (ISMQLNKs) and, optionally, the supporting communication module (CM) hardware.	OP:QNETSTAT 5E15 and later
Request a conditional or unconditional restore of a quad-link packet switch (QLPS) to the standby state.	RST:QLPS 5E15 and later
Requests activation of a standby quad-link packet switch (QLPS) processor.	SW:QLPS 5E15 and later

184.1 Quad-Link Packet Switch Protocol Handler

Topic/Purpose	**Message ID/ Software Release Range**
Requests status for general quad-link packet switch protocol handler links (GQPHLNKs) associated with a particular global switching module (GSM).	OP:ST-GQPHLNK 5E16(2) and later
Requests status for general quad-link packet switch protocol handler (GQPH) QPIPEs on a HOST global switching module (GSM).	OP:ST-GQPHPIPE 5E16(2) and later
Requests that a general quad-link packet switch protocol handler (GQPH) QPIPE be removed from service unconditionally.	RMV:GQPHPIPE 5E16(2) and later
Requests that a quad-link packet switch protocol handler (QPH) QPIPE be removed from service unconditionally.	RMV:QPHPIPE 5E15 and later
Requests that a general quad-link packet switch protocol handler (GQPH) QPIPE be restored to service.	RST:GQPHPIPE 5E16(2) and later
Requests that a quad-link packet switch protocol handler (QPH) QPIPE be restored to service.	RST:QPHPIPE 5E15 and later

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184.2 Quad-Link Packet Switch Gateway Processor

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on a quad-link packet switch (QLPS) gateway processor (QGP) be aborted.	ABT:QGP 5E15 and later
Requests that hardware error checks be allowed to be performed on the specified quad-link packet switch gateway processor (QGP).	ALW:HDW-QGP 5E15 and later
Requests diagnosis of a quad-link packet switch (QLPS) gateway processor (QGP) to determine whether it is in satisfactory working order.	DGN:QGP 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified quad-link packet switch (QLPS) gateway processor (QGP) be dumped.	DUMP:UT-QGP 5E15 and later
Requests interactive diagnosis of a quad-link packet switch (QLPS) gateway processor (QGP).	EX:QGP 5E15 and later
Requests that an unconditional call to a function using parameters in the specified quad-link packet switch (QLPS) gateway processor (QGP) be executed.	EXC:UT-QGP 5E15 and later
Requests that the hardware checks on the specified quad-link packet switch gateway processor (QGP) be inhibited.	INH:HDW-QGP 5E15 and later
Requests that a value(s) be loaded into the memory of the specified quad-link packet switch (QLPS) gateway processor (QGP).	LOAD:UT-QGP 5E15 and later
Request a conditional or unconditional removal of a quad-link packet switch (QLPS) gateway processor (QGP) from service.	RMV:QGP 5E15 and later
Request a conditional or unconditional restore of a quad-link packet switch (QLPS) gateway processor (QGP) to the active state.	RST:QGP 5E15 and later
Requests that actions on a quad-link packet switch (QLPS) gateway processor (QGP) be stopped.	STP:QGP 5E15 and later

184.3 Quad-Link Packet Switch Gateway Processor Link

Topic/Purpose	Message ID/ Software Release Range
Requests an unconditional restore of a quad-link packet switch (QLPS) gateway processor link (QGL).	RST:QGL 5E15 and later

184.4 Quad-Link Packet Switch Time Multiplexed Switch Link

Topic/Purpose	Message ID/ Software Release Range
Requests the output of the current quad-link packet switch (QLPS) time slot equipage based upon each QLPS time slot multiplexed switch link (QTMSLNK).	OP:QLPSTS 5E21(1) and later
Requests a unconditional restore of a quad-link packet switch (QLPS) time multiplexed switch link (QTMSLNK) to the active state.	RST:QTMSLNK 5E15 and later

185. RADIO PORT CONTROLLER UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests a list of alarmed radio port controller units (RPCUs) and their alarm levels.	OP:RPCU 5E15 and later
Requests that the printing of alarmed radio port controller units (RPCUs) by an OP:RPCU input message be stopped.	STP:RPCU 5E15 and later

186. REAL TIME BILLING MEMORY

Topic/Purpose	Message ID/ Software Release Range
Requests that the size of the real time billing memory (RTBM) on switching modules (SM's) be	CFR:RTBM

configured.	5E15 and later
Requests verification of the amount of real time billing memory (RTBM) and the amount currently in use.	VFY:RTBM 5E15 and later

187. REAL TIME CALL DETAIL

Topic/Purpose	Message ID/ Software Release Range
Requests a printout of the global billing switching module (SM) number and the status of the real time call detail (RTCD) office option.	OP:RTCD 5E15 and later

188. RECEIVE-ONLY PRINTER

Topic/Purpose	Message ID/ Software Release Range
Requests specific information about a read only printer (ROP).	OP:ROP 5E15 and later
Requests that the specified ROP be removed from service.	RMV:ROP 5E15 and later
Restores the specified read-only printer (ROP) to service.	RST:ROP 5E15 and later

189. RECENT CHANGE

Topic/Purpose	Message ID/ Software Release Range
Requests that customer-originated recent changes (CORCs) be allowed into the system if they were previously inhibited.	ALW:CORC 5E15 and later
To enable the logging of customer-originated recent changes for one or more switching modules (SMs).	ALW:CORCLOG-SM 5E15 and later
Requests that office-dependent data (ODD) recent changes (RCs) be allowed into the system if they were previously inhibited.	ALW:RC 5E15 and later
Requests that telephone activations of recent change delayed messages (RCDMs) be allowed in the system if they were previously inhibited.	ALW:RCDLY 5E15 and later
Requests that logging of recent changes be allowed for all processors.	ALW:RCLOG 5E15 and later
Requests that customer-originated recent change (CORC) logfiles be evolved (converted) and reapplied.	CNVT:CORCLOG 5E15 and later
Requests that recent change (RC) logfiles be Evolved (converted) to a format compatible with the target software release.	CNVT:RCLOG 5E15 and later
Requests reapplication of customer-originated and/or regular recent changes (RCs) from the disk log.	EXC:ODDRCVY 5E15 and later
Requests the execution of the recent change (RC) or customer originated recent change (CORC) log file decoder.	EXC:RCDECODE 5E15 and later
Requests that all recent changes (RCs) previously entered into the delayed release clerk file(s) be released.	EXC:RCRLS 5E15 and later
Removes selected recent changes previously entered into the delayed release clerk file.	EXC:RCRMV 5E15 and later
Requests that all customer-originated recent changes (CORC) be inhibited.	INH:CORC 5E15 and later
Inhibits the logging of customer-originated recent changes for one or more switching modules (SMs).	INH:CORCLOG-SM 5E15 and later
Requests that all office-dependent data (ODD) recent change (RC) activity be inhibited.	INH:RC 5E15 and later
Requests that all telephone activations of recent change delayed messages (RCDMs) be inhibited in the system.	INH:RCDLY 5E15 and later
Inhibits the logging of recent changes for all processors.	INH:RCLOG 5E15 and later

Requests the reporting of the number of customer-originated recent changes (CORCs) that are logged in one or more switching modules (SMs) and/or one or more communication module processors (CMPs).	OP:CORCSTAT-SM 5E15 and later
Requests verification of permissions for recent change (RC) access from a specified terminal associated with the 3B processor, a specified login ID assigned on the administrative services module (ASM), an authority management login (AUTHLOGIN), or a recent change security group (RCSECGRP).	OP:RCACCESS 5E15 and later
Requests that the current telephone activations status of recent change delayed messages (RCDMs) be displayed.	OP:RCDLY 5E15 and later
Requests the status of a previously entered REPT:RCHIST input message.	OP:RCHIST 5E15 and later
Requests the status of a previously entered EXC:RCRLS input message.	OP:RCRLS 5E15 and later
Requests that the status of a previously entered EXC:RCRMV input message be output.	OP:RCRMV 5E15 and later
Requests the number of recent changes applied in the administrative module (AM), one or more communication module processors (CMPs), and/or one or more switching modules (SMs) since the previous backup of the office-dependent data (ODD).	OP:RCSTAT-SM 5E15 and later
Requests a report on the active recent change (RC) process that is accessing the office-dependent data (ODD) and the terminal, the clerk ID in the case of batch RC, associated with the process.	OP:RCUSER 5E15 and later
Requests a recent change and verify (RC/V) session using the text input option.	RCV:APPTEXT 5E15 and later
Invokes the text recent change and verify (RC/V) activity; this format is used to insert, update, or delete records in the equipment configuration database (ECD) using serial text input.	RCV:DMTECD-RC 5E15 and later
Invokes the text recent change and verify (RC/V) activity; this format is used to review equipment configuration database (ECD) forms using serial text input.	RCV:DMTECD-VFY 5E15 and later
Invokes the text recent change and verify (RC/V) activity.	RCV:DMTSG-RC 5E15 and later
Invokes the text recent change and verify (RC/V) activity.	RCV:DMTSG-VFY 5E15 and later
Requests that the switch access dictionary editor tool (ACCED) be run.	RCV:M-ACCED 5E15 and later
Runs the switch office-dependent data (ODD) application recent change (APPRC) and verify functions.	RCV:M-APPRC 5E15 and later
Requests that the validity of /no5text/bkup/*.ptn files be checked.	RCV:M-BKUPCHK 5E15 and later
Reads or patches an administrative module database using the "browse" tool.	RCV:M-BROWSE 5E15 and later
Requests that the common network interface database consolidator (CNIDBOC) be run.	RCV:M-CNIDBOC 5E15 and later
Requests that the common network interface (CNI) growth script be executed.	RCV:M-CNIGROWTH 5E15 and later
Compares the equipment configuration database (ECD) and the system generation (SG) database.	RCV:M-COMPAREDB 5E15 and later
Requests that a skeleton equipment configuration database (ECD) be generated.	RCV:M-CREATEECD 5E15 and later
Generates a skeleton system generation (SG).	RCV:M-CREATESG 5E15 and later
Invokes a specified recent change activity; this format is used to evolve a new database from an old one.	RCV:M-EVOL 5E15 and later
Compares of two form types.	RCV:M-FDIFF 5E15 and later
Requests that the automatic generic backup process be started.	RCV:M-GENBKUP 5E15 and later
Compares of two sorted keyfiles.	RCV:M-KEYCMP 5E15 and later
Creates, on the standard output, a list of all keys that are common to two sorted keyfiles.	RCV:M-KEYCOMM

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	5E15 and later
Creates a sorted list of form keys for all the instances of a given form type found in the equipment configuration database (ECD) and the system generation (SG) database.	RCV:M-KEYS 5E15 and later
Invokes a specified recent change activity.	RCV:M-LOADF3B 5E15 and later
Creates a sorted list of keys for all form types in the equipment configuration database (ECD) and the system generation (SG) database.	RCV:M-NEWDB 5E15 and later
Requests that the office database editor tool (ODBE) be run.	RCV:M-ODBE 5E15 and later
Creates files of form instances when specified data form type(s) from the equipment configuration database (ECD) and the system generation (SG) database are given.	RCV:M-PRINTDB 5E15 and later
Creates a file of all form instances, given a list of form keys, found in the equipment configuration database (ECD) and the system generation (SG) database.	RCV:M-PRINTFRM 5E15 and later
Reviews or modifies an equipment configuration database (ECD) through recent change (RC).	RCV:M-RCVECD 5E15 and later
Reviews or modifies a system generation (SG) database through recent change (RC).	RCV:M-RCVSG 5E15 and later
Requests that tape data of either smtext [text code that resides on switching modules (SMs)] or SM office-dependent data (SMODD) be read in to a disk or a pair of disks other than the primary disk pair.	RCV:M-RDLDFT 5E15 and later
Requests that the automated pack return tag (RTAG) tool be run.	RCV:M-RTAG 5E15 and later
Runs the *5ESS*® switch screen program that allows the office user to run the *UNIX*® shell, office-dependent data (ODD) database editor (ODBE) and common network interface data base operation consolidator (CNIDBOC), access editor (ACCED) and circuit return tag (RTAG) tool from a recent change and verify (RC/V) terminal, with page-at-a-time output.	RCV:M-SCREEN 5E15 and later
Requests an escape to the shell.	RCV:M-SH 5E15 and later
Invokes a specified recent change activity; this format is used to create a translation database when a tree address space and translation specifications are given.	RCV:M-TRANSGEN 5E15 and later
Invokes a specified recent change activity; this format is used to build a tree address space given the old and new form specifications.	RCV:M-TREEBLD 5E15 and later
Checks the syntax of the specified default file [corresponding to the low level recent change and verify (RC/V) equipment configuration database (ECD) form of the same name], and verifies the low level field names and values contained therein are legal for that low level form.	RCV:M-VFYDFLT 5E15 and later
Requests that administrative module (AM) tape and disk backups be verified as usable.	RCV:M-VFYTXT 5E15 and later
Requests an RC batch history of recent changes (RCs) entered into the RC batch delayed-release clerk files.	REPT:RCHIST 5E15 and later
Requests that permissions for recent change (RC) access from a specified terminal associated with the 3B processor, a specified login ID from the administrative services module (ASM) be set,an authority management login, or a recent change security group.	SET:RCACCESS 5E15 and later
Requests the termination or initialization of the recent change kernel process (RCKP).	ST:OVERLAY 5E15 and later
Requests that a previously entered REPT:RCHIST input message be stopped.	STP:RCHIST 5E15 and later
Requests that a previously entered EXC:RCRLS input message be stopped.	STP:RCRLS 5E15 and later
Requests that a previously entered EXC:RCRMV input message for a delayed release clerkfile be stopped.	STP:RCRMV 5E15 and later

189.1 Global Recent Change

Topic/Purpose	**Message ID/ Software Release Range**
Requests that a global recent change (GRC) job that is waiting in the queue be canceled.	CLR:GRC 5E15 and later
Requests that a global recent change (GRC) operation that is halted be restarted.	EXC:GRC

	5E15 and later
Requests that the global recent change (GRC) password for the given clerk identifier be updated or deleted.	EXC:GRCPASSWORD 5E15 and later
Requests that a global recent change (GRC) job that is waiting in the queue be canceled.	GRC:CANCEL 5E15 and later
Requests that a global recent change (GRC) operation that is halted be restarted.	GRC:CONTINUE 5E15 and later
Requests that the execution of the current global recent change (GRC) job be suspended.	GRC:HALT 5E15 and later
Requests that the global recent change (GRC) password for the given clerk identifier be updated or deleted.	GRC:PASSWORD 5E15 and later
Requests that a report of the global recent change (GRC) activity be printed.	GRC:REPORT 5E15 and later
Requests that a global recent change (GRC) job be rescheduled.	GRC:RESCHED 5E15 and later
Requests that the specified global recent change (GRC) job be removed from the switch.	GRC:RMV 5E15 and later
Requests that a global recent change (GRC) test update job be run to verify that the correct updates will be applied.	GRC:TEST-NAME 5E15 and later
Requests that a report of the global recent change (GRC) activity be printed.	REPT:GRC 5E15 and later
Requests that the specified global recent change (GRC) job be removed from the switch.	RMV:GRC 5E15 and later
Requests that a global recent change (GRC) job be rescheduled.	SCHED:GRC 5E15 and later
Requests that the execution of the current global recent change (GRC) job be suspended.	STP:GRC 5E15 and later
Requests that a global recent change (GRC) test update job be run to verify that the correct updates will be applied.	TST:GRC 5E15 and later

189.2 Recent Change Security Group

Topic/Purpose	Message ID/ Software Release Range
If the recent change (RC) access for a specified terminal associated with the 3B processor, a specified login ID assigned on the administrative services module (ASM), or an authority management login (AUTHLOGIN), this message requests the recent change security group (RCSECGRP) that it is assigned to.	OP:RCSECGRP 5E15 and later
Requests that a specified terminal associated with the 3B processor , a specified login ID the administrative services module (ASM), or an authority management login (AUTHLOGIN), be assigned to a recent change security group (RCSECGRP).	SET:RCSECGRP 5E15 and later

190. RECORDED ANNOUNCEMENT FRAME

Topic/Purpose	Message ID/ Software Release Range
Aborts the specified actions on the recorded announcement function (RAF) unit.	ABT:RAF 5E15 and later
Allows hardware checks in a recorded announcement function (RAF) unit to occur.	ALW:HDW-RAF 5E15 and later
Removes and diagnoses a recorded announcement function (RAF) unit to determine whether it is in satisfactory working order.	DGN:RAF 5E15 and later
Interactively diagnoses (exercises) the recorded announcement function (RAF) unit.	EX:RAF 5E15 and later
Inhibits hardware checks in a recorded announcement function (RAF) unit.	INH:HDW-RAF 5E15 and later
Requests that a recorded announcement function (RAF) unit be removed from service.	RMV:RAF 5E15 and later

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Conditionally or unconditionally restores a recorded announcement function (RAF) unit to service.	RST:RAF 5E15 and later
Requests that the specified actions on the recorded announcement function (RAF) unit be stopped.	STP:RAF 5E15 and later

191. REGISTERS

Topic/Purpose	Message ID/ Software Release Range
Requests that data be copied from the administrative module (AM) registers to virtual addresses in main memory and in registers as an action associated with a breakpoint.	COPY:REG 5E15 and later
Dumps the contents of one or more registers, either as an immediate action, or as an action associated with a breakpoint.	DUMP:REG 5E15 and later
Requests that the contents of the error registers of the specified hardware unit be initialized.	INIT:REG 5E15 and later
Loads an administrative module (AM) register with specified data as a breakpoint action.	LOAD:REG 5E15 and later
Requests that the contents of the error registers of the specified hardware unit be printed.	OP:REG 5E15 and later

192. REMOTE BUILDING AND MISCELLANEOUS SCAN POINT

Topic/Purpose	Message ID/ Software Release Range
Inhibits alarms from a single specific REMOTE building or miscellaneous alarm scan point.	INH:RBPSC-SM 5E15 and later

193. REMOTE CLOCK

Topic/Purpose	Message ID/ Software Release Range
Aborts maintenance actions on the remote clock (RCLK) circuit.	ABT:RCLK 5E15 and later
Allows hardware error checks to be performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level.	ALW:HDW-RCLK 5E15 and later
Requests a diagnosis of a remote clock (RCLK) side.	DGN:RCLK 5E15 and later
Requests that maintenance exercises be performed on the remote clock (RCLK).	EX:RCLK 5E15 and later
Inhibits hardware error checks from being performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level.	INH:HDW-RCLK 5E15 and later
Requests that a specified remote clock (RCLK) circuit be removed from service.	RMV:RCLK 5E15 and later
Requests that the specified remote clock (RCLK) circuit be restored to service.	RST:RCLK 5E15 and later
Requests that a remote clock (RCLK) circuit be set to a specific mode.	SET:RCLK 5E15 and later
Requests that maintenance actions on the remote clock (RCLK) circuit be stopped.	STP:RCLK 5E15 and later
Requests that the status of active and standby remote clock (RCLK) circuits be switched.	SW:RCLK 5E15 and later

193.1 Remote Clock Cross Couple

Topic/Purpose	Message ID/ Software Release Range
Aborts maintenance actions on the remote clock cross couple (RCXC).	ABT:RCXC

	5E15 and later
Requests that a specified remote clock cross couple (RCXC) be removed from service.	RMV:RCXC 5E15 and later
Requests that a specified remote clock cross couple (RCXC) be restored to service.	RST:RCXC 5E15 and later

193.2 Remote Clock Oscillator

Topic/Purpose	Message ID/ Software Release Range
Aborts maintenance actions on the remote clock oscillator (RCOSC).	ABT:RCOSC 5E15 and later
Allows hardware error checks to be performed on the specified remote clock oscillator (RCOSC) circuit.	ALW:HDW-RCOSC 5E15 and later
Inhibits hardware error checks from being performed on the specified remote clock oscillator (RCOSC) circuit.	INH:HDW-RCOSC 5E15 and later
Requests that a specified remote clock oscillator (RCOSC) be removed from service.	RMV:RCOSC 5E15 and later
Requests that a specified remote clock oscillator (RCOSC) be restored to service.	RST:RCOSC 5E15 and later
Requests the switch of active remote clock oscillators (RCOSC) to the specified remote clock (RCLK) side.	SW:RCOSC 5E15 and later

193.3 Remote Clock Oscillator Couple

Topic/Purpose	Message ID/ Software Release Range
Aborts maintenance actions on the remote clock oscillator cross couple (RCOXC).	ABT:RCOXC 5E15 and later
Allows hardware error checks to be performed on the specified remote clock oscillator cross couple (RCOXC) link.	ALW:HDW-RCOXC 5E15 and later
Inhibits hardware error checks from being performed on the specified remote clock oscillator cross couple (RCOXC) circuit.	INH:HDW-RCOXC 5E15 and later
Requests that a specified remote clock oscillator cross couple (RCOXC) be removed from service.	RMV:RCOXC 5E15 and later
Requests that a specified remote clock oscillator cross couple (RCOXC) be restored to service.	RST:RCOXC 5E15 and later

193.4 Remote Clock Reference

Topic/Purpose	Message ID/ Software Release Range
Aborts maintenance actions on the remote clock reference (RCREF).	ABT:RCREF 5E15 and later
Allows hardware error checks to be performed on the specified remote clock reference (RCREF).	ALW:HDW-RCREF 5E15 and later
Inhibits hardware error checks from being performed on the specified remote clock reference (RCREF).	INH:HDW-RCREF 5E15 and later
Requests that a specified remote clock reference (RCREF) be removed from service.	RMV:RCREF 5E15 and later
Requests that a specified remote clock reference (RCREF) be restored to service.	RST:RCREF 5E15 and later
Requests that an active remote clock reference (RCREF) be switched to the specified clock reference.	SW:RCREF 5E15 and later

194. REMOTE COMMON DATA AND CONTROL

Topic/Purpose	Message ID/ Software Release

	Range
Requests that an operation be performed or a status read on a remote common data and control (COMDAC) distribute point.	EX:RCDDP 5E15 and later

195. REMOTE COMMUNICATIONS LINK

Topic/Purpose	Message ID/ Software Release Range
Requests that maintenance actions on an inter-remote switching module (RSM) remote communication link (RCL) be aborted.	ABT:RCL 5E15 and later
Requests that a remote communication link (RCL) between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits be removed from service.	RMV:RCL 5E15 and later
Requests that a remote communication link (RCL) between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits be restored to service.	RST:RCL 5E15 and later
Requests that maintenance actions on an inter-remote switching module (RSM) communication link (RCL) be stopped.	STP:RCL 5E15 and later

196. REMOTE INTEGRATED SERVICE LINE UNIT

Topic/Purpose	Message ID/ Software Release Range
Aborts maintenance actions on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).	ABT:RRCLK 5E15 and later
Allows hardware checks to occur on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).	ALW:HDW-RRCLK 5E15 and later
Diagnoses a remote integrated services line unit (RISLU) remote clock (RRCLK) circuit pack to determine whether it is in satisfactory working order.	DGN:RRCLK 5E15 and later
Exercises a remote integrated services line unit (RISLU) remote clock (RRCLK) circuit pack.	EX:RRCLK 5E15 and later
Inhibits hardware checks in a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).	INH:HDW-RRCLK 5E15 and later
Requests that a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK) be removed from service.	RMV:RRCLK 5E15 and later
Requests that a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK) be restored to service.	RST:RRCLK 5E15 and later
Requests that maintenance actions be stopped on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).	STP:RRCLK 5E15 and later
Requests that the active/standby states of the remote integrated services line unit (RISLU) remote clock circuit packs (RRCLKs) be switched (interchanged).	SW:RRCLK 5E15 and later

197. REMOTE SWITCHING MODULE

197.1 Remote Switching Module Alarm

Topic/Purpose	Message ID/ Software Release Range
Requests that maintenance actions on the remote switching module (RSM) alarm (RAU) circuit be aborted.	ABT:RAU 5E15 and later
Requests that a remote switching module (RSM) alarm (RAU) circuit be diagnosed to determine if it is in working order.	DGN:RAU 5E15 and later
Performs maintenance exercises on the remote switching module (RSM) alarm (RAU) circuit.	EX:RAU 5E15 and later
Requests that a remote switching module (RSM) alarm (RAU) circuit be removed from service.	RMV:RAU 5E15 and later
Restores a remote switching module (RSM) alarm (RAU) circuit to service.	RST:RAU 5E15 and later
Requests that maintenance actions on the remote switching module (RSM) alarm (RAU)	STP:RAU

circuit be stopped.	5E15 and later

197.2 Remote Switching Module Digital Facility Interface

Topic/Purpose	Message ID/ Software Release Range
Requests that maintenance actions on the remote switching module (RSM) digital facilities interface (RDFI) circuit be aborted.	ABT:RDFI 5E15 and later
Requests that a remote switching module (RSM) digital facilities interface (RDFI) circuit be diagnosed to determine if it is in working order.	DGN:RDFI 5E15 and later
Performs maintenance exercises on the remote switching module (RSM) digital facilities interface (RDFI) circuit.	EX:RDFI 5E15 and later
Requests that a remote switching module (RSM) digital facilities interface (RDFI) circuit be removed from service.	RMV:RDFI 5E15 and later
Restores a remote switching module (RSM) digital facilities interface (RDFI) circuit to service.	RST:RDFI 5E15 and later

197.3 Remote Switching Module Remote Link Interface

Topic/Purpose	Message ID/ Software Release Range
Requests that maintenance actions on the remote switching module (RSM) remote link interface (RLI) circuit be aborted.	ABT:RLI 5E15 and later
Allows hardware error checks to be performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.	ALW:HDW-RLI 5E15 and later
The CFR:SAMEM command is used to configure the size of the stand alone billing memory (SABM) on switching modules (SMs).	CFR:SAMEM 5E15 and later
Requests that a remote switching module (RSM) remote link interface (RLI) circuit be diagnosed to determine if it is in working order.	DGN:RLI 5E15 and later
Performs maintenance exercises on the remote switching module (RSM) remote link interface (RLI) circuit.	EX:RLI 5E15 and later
Inhibits the hardware error checks performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.	INH:HDW-RLI 5E15 and later
Requests that a remote switching module (RSM) remote link interface (RLI) circuit be removed from service.	RMV:RLI 5E15 and later
Restores a remote switching module (RSM) remote link interface (RLI) circuit to service and makes it active or standby.	RST:RLI 5E15 and later
Requests that maintenance actions be stopped on the remote switching module (RSM) remote link interface (RLI) circuit.	STP:RLI 5E15 and later
Requests that activity of the remote switching module (RSM) remote link interface (RLI) circuit be switched.	SW:RLI 5E15 and later
The VFY:SAMEM input message requests a report of the amount of memory configured for the stand alone billing memory (SABM) and the amount currently in use.	VFY:SAMEM 5E15 and later

198. REMOTE TERMINAL

Topic/Purpose	Message ID/ Software Release Range
Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.	ABT:RMV-RT 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.	ABT:RST-RT 5E15 and later
Requests that protection line switch requests be allowed to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) or requests that a DS1 be allowed to be released from protection.	ALW:RT-FAC 5E15 and later
Requests that the printing of remote terminal (RT) report messages be allowed at the Master Control Center (MCC) and the Switching Control Center (SCC).	ALW:RT-PROV-REPT 5E15 and later
Requests that the printing of remote terminal (RT) report messages at the Master Control	ALW:RT-REPT

Center (MCC) and the Switching Control Center (SCC) be allowed.	5E15 and later
Requests that metallic setup failure override be allowed when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT).	ALW:RTMTBOVR 5E15 and later
Requests that the printing of the REPT:RTMTB-SID output message be allowed when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).	ALW:RTMTBPRT 5E15 and later
Requests that a far end loop process (FELP) or a protection (PROT) configuration request be cleared for a particular digital signal level one (DS1) facility (FAC).	CLR:RT-FAC 5E15 and later
Requests the disabling of the option of having the switching module (SM) status indicator updated to off-normal (OFFN) when a remote terminal (RT) T1 is in an off-normal state.	CLR:RT-FACOFFN 5E15 and later
Requests that equipment numbers relating to remote terminals (RT) that interface to an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S) be converted.	CNVT:RT 5E15 and later
Requests the provisioning of a TR303 remote terminal (RT) on an integrated digital carrier unit (IDCU) or digital network unit SONET (DNU-S).	EXC:RT-PROV 5E15 and later
Requests that protection line switch requests to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) circuit be inhibited or requests that a DS1 currently on protection be taken off of protection.	INH:RT-FAC 5E15 and later
Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be inhibited.	INH:RT-PROV-REPT 5E15 and later
Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be inhibited.	INH:RT-REPT 5E15 and later
Requests that metallic setup failure override be inhibited when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT).	INH:RTMTBOVR 5E15 and later
Requests that the printing of the REPT RTMTB SID message be inhibited when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).	INH:RTMTBPRT 5E15 and later
Requests a report of the current off-normal states and alarms for integrated TR008/TR303 remote terminals (RT) in the office, either as a summary or a separate report for each RT.	OP:RT-ALM-ALL 5E15 and later
Requests that information describing the configuration of the embedded operations channel (EOC) and timeslot management channel (TMC) for the specified remote terminal (RT) be displayed.	OP:RT-CHAN 5E15 and later
Requests the value of the switching module (SM) status indicator.	OP:RT-FACOFFN 5E15 and later
Requests a status message of the provisionable elements of a remote terminal (RT) terminating on an IDCU or DNUS.	OP:RT-PROV 5E15 and later
Requests the current status of the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC).	OP:RT-REPT 5E15 and later
Requests a report of the current off-normal states and alarms for one or more integrated TR008/TR303 remote terminals (RT) in the office.	OP:RT-SID-LRT 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:DNUSEOC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:DNUSTMC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:IDCUEOC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:IDCUTMC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:RT-EOC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:RT-TMC 5E15 and later

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Requests that a remote terminal (RT) facility (FAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:RTFAC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.	RST:DNUSEOC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.	RST:DNUSTMC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.	RST:IDCUEOC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.	RST:IDCUTMC 5E15 and later
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.	RST:RT-EOC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.	RST:RT-TMC 5E15 and later
Requests that a remote terminal (RT) facility (FAC) circuit be restored to service.	RST:RTFAC 5E15 and later
Requests that a remote terminal (RT) facility (FAC) circuit be restored to service.	RST:RTFAC 5E15 and later
Requests that a far end loop process (FELP) or a protection configuration request (PROT) be set for a particular digital signal level one (DS1) facility (FAC).	SET:RT-FAC 5E15 and later
Requests enabling of the option to update the switching module (SM) status indicator to off-normal when a remote terminal (RT) T1 is in an off-normal state.	SET:RT-FACOFFN 5E15 and later
Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped.	STP:DNUSEOC 5E15 and later
Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.	STP:DNUSTMC 5E15 and later
Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped.	STP:IDCUEOC 5E15 and later
Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.	STP:IDCUTMC 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.	STP:RMV-RT 5E15 and later
Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.	STP:RST-RT 5E15 and later
Requests that actions on a remote terminal (RT) facility (FAC) circuit be stopped.	STP:RTFAC 5E15 and later
Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).	SW:DNUSEOC 5E15 and later
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).	SW:DNUSTMC 5E15 and later
Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).	SW:IDCUEOC 5E15 and later
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).	SW:IDCUTMC 5E15 and later
Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).	SW:RT-EOC 5E15 and later
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).	SW:RT-TMC 5E15 and later

199. REORGANIZATION

Topic/Purpose	**Message ID/ Software Release Range**
To allow automatic reorganization of all data base relations listed on the REPT:REORG output message.	ALW:REORG 5E15 and later
Runs the reorganization of the database relations immediately.	EXC:REORG 5E15 and later
Inhibits automatic reorganization of database relations.	INH:REORG

	5E15 and later
Requests that the time for reorganization of the database relation to run automatically be set to a specific value.	SET:REORG 5E15 and later

200. REPORTS

Topic/Purpose	Message ID/ Software Release Range
Requests a summary report of the ANI Index Table RC/V View 8.58 and LDP Index Table RC/V View 8.59.	OP:ANITBL 5E15 and later
Requests that the plant report be printed at a time other than the regularly scheduled time.	OP:PLNT24-A 5E15 - 5E16(2)
Requests that the plant report be printed at a time other than the regularly scheduled time.	OP:PLNT24-B 5E17(1) and later
Requests the various plant measurements common reports, detailing system performance statistics.	OP:PMCR 5E15 and later

201. RETROFIT

Topic/Purpose	Message ID/ Software Release Range
Requests a memory forecast report on the amount of processor memory required to retrofit to a subsequent software release.	OP:MEMSIZE 5E15 and later
Requests termination of the OP:MEMSIZE input message.	STP:MEMSIZE 5E15 and later

202. REVERTIVE PULSING TRANSCEIVER

Topic/Purpose	Message ID/ Software Release Range
Requests that actions currently running on the revertive pulsing transceiver (RVPT) be aborted.	ABT:RVPT 5E15 and later
Allows hardware error checks to be performed on the specified revertive pulsing transceiver (RVPT).	ALW:HDW-RVPT 5E15 and later
Requests that the revertive pulsing transceiver (RVPT) be diagnosed to determine whether it is in satisfactory working order.	DGN:RVPT 5E15 and later
Interactively diagnoses (exercises) the revertive pulsing transceiver (RVPT) to determine whether it is in satisfactory working order.	EX:RVPT 5E15 and later
Inhibits the hardware error checks performed on the specified revertive pulsing transceiver (RVPT).	INH:HDW-RVPT 5E15 and later
Requests that the revertive pulsing transceiver (RVPT) be removed from service.	RMV:RVPT 5E15 and later
Conditionally or unconditionally restores the revertive pulsing transceiver (RVPT) to the active state.	RST:RVPT 5E15 and later
Requests that currently running actions be stopped gracefully on the revertive pulsing transceiver (RVPT) at the specified location.	STP:RVPT 5E15 and later

203. RING

Topic/Purpose	Message ID/ Software Release Range
Requests that entry into the ring tracker mode be allowed; a prior INH:RTRACK input message has inhibited ring tracker mode.	ALW:RTRACK 5E15 and later
Requests that the ring tracker mode be initiated.	EXC:RTRACK 5E15 and later
Requests that entry into the ring tracker mode be inhibited.	INH:RTRACK 5E15 and later

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Requests that the current status of the ring tracker mode be reported.	OP:RTRACK 5E15 and later
Requests the termination of ring tracker mode.	STOP:RTRACK 5E15 and later

203.1 Ring Peripheral Controller Node

Topic/Purpose	Message ID/ Software Release Range
Requests diagnostics of the specified ring peripheral controller node (RPCN).	DGN:RPCN 5E15 and later
Exercises a ring peripheral controller node (RPCN) in an interactive diagnostic mode.	EX:RPCN 5E15 and later
Requests that the directory numbers on the calling line identification list (CLID) be printed.	OP:CLID 5E15 and later
Requests that the specified ring peripheral controller node (RPCN) be removed from service.	RMV:RPCN 5E15 and later
Requests that the specified ring peripheral controller node (RPCN) be restored to service.	RST:RPCN 5E15 and later

204. ROUTINE EXERCISE

Topic/Purpose	Message ID/ Software Release Range
Requests that any currently running generated key collection and compression routine (GKCCR) processes be aborted in specified processors.	ABT:GKCCR 5E15 and later
Requests that automatic periodic execution of the generated key collection and compression routine (GKCCR) be allowed in specified processors.	ALW:GKCCR 5E15 and later
Requests that routine exercises (REX) be allowed by clearing individual routine exercise inhibits for one or more hardware communities by clearing the REX temporary inhibit(s).	ALW:REX 5E15 and later
Allows either one or all valid test types of routine exercise (REX) of the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs.	ALW:REX-CM-SM 5E15 and later
Requests that the scheduling of a unit for routine exercise (REX) be allowed in the communication module (CM) or in a switching module (SM).	ALW:REX-UNIT 5E15 and later
Requests execution of a generated key collection and compression routine (GKCCR) in the specified processors.	EXC:GKCCR 5E15 and later
Requests routine exercises (REX) of the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs be executed.	EXC:REX-CM-SM 5E15 and later
Requests that a routine exercise (REX) and/or automatic line insulation test (ALIT) schedule be generated based on the equipment present.	EXC:SCHED 5E15 and later
Requests the inhibition of automatic executions of the generated key collection and compression routine (GKCCR) in specified processors.	INH:GKCCR 5E15 and later
Requests that routine exercises (REX) be inhibited for one or more hardware communities by setting the REX temporary inhibit(s).	INH:REX 5E15 and later
Inhibits either one or all three test types of routine exercise of the hardware in the administrative module (AM) and switching modules (SMs).	INH:REX-AM-SM 5E15 and later
Inhibits either one or all valid test types for routine exercise (REX) of the hardware in the communication module (CM) and in all switching modules (SMs) or in the CM or in a range of SMs.	INH:REX-CM-SM 5E15 and later
Requests that the scheduling of a unit for routine exercise (REX) be inhibited in the communication module (CM) or in a switching module (SM).	INH:REX-UNIT 5E15 and later
Requests the summary of one or all valid test types of routine exercise (REX) for the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in an SM.	OP:REX-CM-SM 5E15 and later
Requests the status of routine exercises (REX) in a specific module.	OP:REXINH 5E15 and later
Invokes the installation routine exercise (IREX) user interface tool.	RCV:M-IREX 5E15 and later

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Requests that either one or all valid test types of routine exercise (REX) of the hardware be stopped in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs.	STP:REX-CM-SM 5E15 and later

205. ROUTINE PORT CONDITIONING

Topic/Purpose	Message ID/ Software Release Range
The purpose of this input message is to allow routine port conditioning.	ALW:RPC 5E15 and later
The purpose of this input message is to inhibit routine port conditioning.	INH:RPC 5E15 and later
Requests the status of the routine port conditioning (RPC) for a specified SM.	OP:RPC-SM 5E15 and later

206. SCAN POINT BOARD

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the scan point board at the specified location be aborted.	ABT:SCAN 5E15 and later
Requests that a scan point board be diagnosed to determine whether it is in satisfactory working order.	DGN:SCAN 5E15 and later
Requests interactive diagnostics (exercises) of the scan point board (SCAN).	EX:SCAN 5E15 and later
Reads the state of a particular digital trunk to determine if the far end (originator) is on/off-hook.	ORD:SCAN-A 5E15 only
Reads the state of a particular digital trunk to determine if the far end (originator) is on/off-hook.	ORD:SCAN-B 5E16(1) and later
Requests that a scan point board (SCAN) be removed from service.	RMV:SCAN 5E15 and later
Requests that a scan point board (SCAN) in the metallic service unit be conditionally or unconditionally restored to service.	RST:SCAN 5E15 and later
Requests that actions on the scan scan point board (SCAN) at the specified location be stopped.	STP:SCAN 5E15 and later

207. SCANNER AND SIGNAL DISTRIBUTOR

207.1 Scanner and Signal Distributor Controller

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified scanner and signal distributor controller (SCSDC).	DGN:SCSDC 5E15 and later
Exercises a scanner and signal distributor controller (SCSDC) in an interactive diagnostic mode.	EX:SCSDC 5E15 and later
Requests that the specified scanner and signal distributor controller (SCSDC) be removed from service.	RMV:SCSDC 5E15 and later
Conditionally or unconditionally restores a scanner and signal distributor controller (SCSDC) to service.	RST:SCSDC 5E15 and later

207.2 Scanner and Signal Distributor Scan Points

Topic/Purpose	Message ID/ Software Release Range
Requests that transitions of a scanner and signal distributor (SCSD) scan point be reported.	ALW:SCSD 5E15 and later

Requests that reporting of transitions of a scanner and signal distributor (SCSD) scan point be inhibited.	INH:SCSD 5E15 and later
Requests the inhibit status and the state of scanner and signal distributor (SCSD) scan points.	OP:SCSD 5E15 and later
Requests that one of four distribution operations be performed on a scanner and signal distributor (SCSD) distribute point.	ORD:SCSD 5E15 and later

208. SELECTIVE INCOMING LOAD CONTROL

Topic/Purpose	Message ID/ Software Release Range
Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be allowed.	ALW:DSILC 5E15 and later
Requests that a trunk group be assigned to selective incoming load control (SILC) treatment.	ASGN:SILC 5E15 and later
Requests that a trunk group be removed from selective incoming load control (SILC) treatment with an option to clear the entire list.	CLR:SILC 5E15 and later
Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be inhibited.	INH:DSILC 5E15 and later
Request a list of all trunk groups assigned to selective incoming load control (SILC) treatment, SILC treatment inhibit, and SILC activation state.	OP:SILC 5E15 and later

209. SERVICE ANNOUNCEMENT SYSTEM

Topic/Purpose	Message ID/ Software Release Range
Aborts the specified actions on the service announcement system (SAS) unit.	ABT:SAS 5E15 and later
Allows hardware checks in a service announcement system (SAS) unit to occur.	ALW:HDW-SAS 5E15 and later
Removes and diagnoses a service announcement system (SAS) unit to determine whether it is in satisfactory working order.	DGN:SAS 5E15 and later
Interactively diagnoses (exercises) the service announcement system (SAS) unit.	EX:SAS 5E15 and later
Inhibits hardware checks in a service announcement system (SAS) unit.	INH:HDW-SAS 5E15 and later
Requests that a service announcement system (SAS) unit be removed from service.	RMV:SAS 5E15 and later
Conditionally or unconditionally restores a service announcement system (SAS) unit to service.	RST:SAS 5E15 and later
Requests that the specified actions on the service announcement system (SAS) unit be stopped.	STP:SAS 5E15 and later

210. SESSION INITIATION PROTOCOL FOR TELEPHONY

Topic/Purpose	Message ID/ Software Release Range
Requests to clear the session initiation protocol (SIP) per error counts stored in the SIP protocol handler (SIPPH).	CLR:SIPDMP 5E20(1) and later
Requests to dump the session initiation protocol (SIP) per error counts stored in SIP protocol handler (SIPPH).	OP:SIPDMP 5E20(1) and later
Requests the status of one or more near endpoint(s) and service selection for the associated session initiation protocol for telephony protocol handler (SIP-T PH) or the status of one or more association(s) and the associated paths.	OP:ST-SCTP 5E16(2) and later
Requests that the status information be output for one or more session initiation protocol (SIP) packet group(s), service group(s), and/or user datagram protocol (UDP) paths supporting SIP.	OP:ST-SIP 5E20(1) and later
Requests that the processing of a previously-entered OP:ST-SIP input message be halted.	STP:ST-SIP 5E20(1) and later

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211. SIGNALING

Topic/Purpose	Message ID/ Software Release Range
Requests that a pending trap that was entered by the SET:TRAP input message be activated.	ALW:TRAP 5E15 and later
Requests that the message transfer part (MTP) route verification test (MRVT) be initiated.	EXC:MRVT-PC 5E15 and later
Requests that an active trap be temporarily suspended.	INH:TRAP 5E15 and later
Requests a formatted display of the routing data in the cluster, member, and load share tables of the common network and for the signaling connection control part (SCCP) subsystem bit map.	OP:C7NET 5E15 and later
Requests local area signaling services (LASS) screen list editing (SLE) validation of a ten-digit directory number (DN).	OP:LASSRQST 5E15 and later
Requests that status information be obtained regarding active, pending, terminated, aborted, inhibited or completed traps.	OP:TRAP 5E15 and later
Requests that a trap be set for CCS7 type messages by entering the specific trap attributes that are to be matched.	SET:TRAP 5E15 and later
Requests that a trap be stopped or removed from the internal database.	STOP:TRAP 5E15 and later
Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the network control point (NCP) and the *5ESS®* switch.	TST:ACPNUM 5E15 and later

212. SIGNALING SYSTEM 7

Topic/Purpose	Message ID/ Software Release Range
Allows the printing of the ISUP/BICC abnormal acknowledgement output message.	ALW:S7ACK 5E15 and later
To allow viewing of CCSMTCE messages.	ALW:S7RPT 5E15 and later
To Allow demand or automatic periodic PCI7GR cross checking to run.	ALW:S7XCHK 5E15 and later
Activates an observation scope for all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation CCSMTCE messages.	EXC:S7RPT 5E15 and later
Execute a demand cross check (S7XCHK) request.	EXC:S7XCHK 5E15 and later
Inhibits the printing of the ISUP/BICC abnormal acknowledgement output message.	INH:S7ACK 5E15 and later
Stops observation of SS7 messages, clears any previous observation scope and observation types, and inhibits any further observations.	INH:S7RPT 5E15 and later
Inhibit demand or automatic periodic PCI7GR cross check from running.	INH:S7XCHK 5E15 and later
Requests the status of the ISUP/BICC abnormal acknowledgement output message.	OP:S7ACK 5E15 and later
Requests the current status of all observations.	OP:S7RPT 5E15 and later
Determines whether the PCI7GR cross check running is inhibited or allowed for the entire office.	OP:S7XCHK 5E15 and later
Requests the output of signaling system 7 (SS7) trunk data matching specified characteristics.	OP:SS7 5E15 and later
Selects and modifies the observation type(s) for the whole office.	SET:S7RPT 5E15 and later
Terminates an observation scope for all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation CCSMTCE messages.	STP:S7RPT 5E15 and later
Request that the active PCI7GR cross check request be stopped.	STP:S7XCHK

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	5E15 and later
Requests that the processing and output of the signaling system 7 (SS7) trunk data request or task, OP:SS7, be stopped.	STP:SS7 5E15 and later

212.1 Common Channel Signaling System 7

Topic/Purpose	Message ID/ Software Release Range
Clears the status of a route making it available, and stops the signaling route set test (SRST) for the route.	CLR:CCS-SRST 5E15 and later
Requests an initialization of named table(s) in the selected common channel signaling (CCS) global switching module (GSM).	INIT:SCCP 5E15 and later
Requests the linkset or combined linkset servicing each accessible destination point code (DPC) for the common channel signaling (CCS) global switching module (GSM).	OP:CCS-ACDPC 5E15 and later
Requests the number of currently active (in service) member(s) in each signaling linkset on a common channel signaling (CCS) global switching module (GSM).	OP:CCS-ACTLK 5E15 and later
Requests status information of all members of one or more combined link sets (CLSs) on a given common channel signaling (CCS) global switching module (GSM).	OP:CCS-CLS 5E15 and later
Requests a report of the destination point codes (DPCs) currently served by a specified SS7 linkset or combined linkset on a common channel signaling (CCS) global switching module (GSM).	OP:CCS-DPCLS 5E15 and later
Requests common channel signaling link (CCSLK) and internal CCS message transport (CMT) summary status on one/more global switching modules (GSMs).	OP:CCS-GSM 5E15 and later
Generates the report of the combined link set of which a given link set is a member.	OP:CCS-LSCLS 5E15 and later
Requests the monitoring action to be turned on, turned off, or the status of links and/or members and/or flow control management (FCM) and/or traffic flow management (TFM) for specified monitoring masks (or a combination thereof).	OP:CCS-MON 5E16(1) and later
Requests information about spcific originating point codes that are provisioned.	OP:CCS-OPC 5E15 and later
Requests specific routing status.	OP:CCS-ROUTE 5E15 and later
Requests status information for one or more signaling connection control part (SCCP) subsystem(s) at one or more destination point codes (DPCs).	OP:CCS-SCMG 5E15 and later
Requests a display of the normal and current signaling link selection (SLS) distributions for all links currently carrying traffic to the specified destination point code (DPC) or a display of the normal and current SLS distribution of a link for a specific linkset (LS) or combined linkset (CLS) specified.	OP:CCS-SLS 5E15 and later
Requests the translation point code (TPC) for a single or range of translation types to be displayed.	OP:CCS-TPC 5E15 and later
Requests the status of one or more common channel signaling (CCS) links.	OP:ST-CCSLK 5E15 and later
Requests status of the common channel signaling (CCS) message delivery (MD) network.	OP:ST-MD 5E15 and later
Requests that translation point codes (TPCs) for the specified translation type (TT) be displayed.	OP:TPC 5E15 and later
Removes a common channel signaling (CCS) link(s) from service by deactivating, inhibiting, or blocking the link(s).	RMV:CCSLK-A 5E15 - 5E19(1)
Removes a common channel signaling (CCS) link(s) from service by deactivating, inhibiting, or blocking the link(s).	RMV:CCSLK-B 5E20(1) and later
Removes a common channel signaling (CCS) intra-global switching module (GSM) message delivery (MD) path internal to the GSM.	RMV:MD 5E15 and later
Restores service to a common channel signaling (CCS) link(s) by removing the deactivating, inhibiting, or blocking status on that link(s).	RST:CCSLK 5E15 and later
Restores the intra-global switching module (GSM) common channel signal (CCS) message delivery (MD) path.	RST:MD 5E15 and later
Requests that the reporting of accessibility status of the destination point codes (DPC), clusters and/or networks in the global switching module (GSM) by the OP:CCS-ROUTE	STP:CCS-ROUTE 5E15 and later

message be stopped.	
Requests that an automated inward line screening (AILS) originating line screening (OLS) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent from a call serving Operator Service Position System (OSPS) to a normal serving site OSPS to gather AILS OLS data.	TST:AILS-OLS 5E15 and later
Requests that an automated inward line screening (AILS) terminating code screening (TCS) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent from a call serving Operator Service Position System (OSPS) to a normal serving site OSPS to gather AILS TCS data.	TST:AILS-TCS 5E15 and later
Requests that a customer account services (CAS) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the CAS/network control point (NCP) or gateway/NCP data base to verify its operation.	TST:CAS7 5E15 and later
Requests that a report is issued indicating whether generic retrofit selective initialization may proceed with minimal impact on CCS capability.	TST:CCS-GSMCFG 5E15 and later
Schedules a link test to be run on a signaling link.	TST:CCSLK 5E15 and later
Requests that an international credit card validation (ICCV) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to a foreign database to verify its operation.	TST:ICCV 5E15 and later
Requests that a line applications for consumers (LAC) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the number 2 LAC (2LAC)/network control point (NCP) to verify its operation.	TST:LAC 5E15 and later

212.2 Common Channel Signaling Protocol Monitoring

Topic/Purpose	Message ID/ Software Release Range
Requests that a protocol monitoring session be started for the ISUP, BICC, or TCAP protocol based on the values of particular parameters within the message.	EXC:PMCCS 5E15 and later
Requests a list of active CCS protocol monitoring (PM) sessions and provides status of the PM processors.	OP:PMCCS 5E15 and later
Requests that a specific CCS protocol monitoring (PM) session or all CCS protocol monitoring sessions be stopped.	STP:PMCCS 5E15 and later

213. SIGNALING LINK

Topic/Purpose	Message ID/ Software Release Range
Requests a change in the minor state of a signaling link (SLK).	CHG:SLK 5E15 and later
Requests that the status of the alarm inhibit flag of a signaling link (SLK) be set, reset, or listed.	INH:SLK 5E15 and later
Requests that the link monitor be turned on or off.	MON:SLK 5E15 and later
Requests status information for the signaling links (SLKs).	OP:SLK 5E15 and later
Requests that a change be made to a new key on an encrypted signaling link (SLK).	REKEY:SLK 5E15 and later
Requests a status report of all signaling link (SLK) inhibit alarm flags set (ON).	REPT:SLK 5E15 and later

214. SIGNALING CONNECTION CONTROL PART

Topic/Purpose	Message ID/ Software Release Range
Requests that the prohibited status of signaling connection control part (SCCP) Subsystems at a destination point code (DPC) be cleared.	CLR:SCMG 5E15 and later

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215. SIGNALING NETWORK ADMINISTRATOR TIME

Topic/Purpose	Message ID/ Software Release Range
Requests the current view of the common channel interoffice signaling (CCIS) network administration time (SNAT).	OP:SNAT 5E15 and later

216. SMALL COMPUTER SYSTEM INTERFACE

Topic/Purpose	Message ID/ Software Release Range
Download the pumpcode to the small computer system interface (SCSI) disk file controller (DFC).	LOAD:DFC-PUMP 5E15 and later
Load a specified pumpcode file into the SCSI disk file controller's (DFC's) random access memory (RAM) area.	LOAD:DFC-RAM 5E15 and later
Removes the specified SCSI bus (SBUS) connected to a SCSI disk file controller (DFC).	RMV:SBUS 5E15 and later
Requests that a SCSI bus (SBUS) be restored to service.	RST:SBUS 5E15 and later

217. SOFTWARE CHECK

Topic/Purpose	Message ID/ Software Release Range
Allows the software error handling routines to incorporate system initialization into their error recovery procedures as a means of handling administrative module (AM) software sanity problems.	ALW:SFTCHK 5E15 and later
Requests that all software error checks be allowed in one or more switching modules (SMs), or a specified communication module processor (CMP).	ALW:SFTCHK-SM 5E15 and later
Requests that the reporting of software resource measurement (SRM) information be allowed for a switching module (SM).	ALW:SRM-A 5E15 - 5E19(1)
Requests that the reporting of software resource measurement (SRM) information be allowed for a switching module (SM).	ALW:SRM-B 5E20(1) and later
Request that the use of system initialization be inhibited when handling administrative module (AM) software errors.	INH:SFTCHK 5E15 and later
Requests that all software error checks be inhibited in one or more switching modules (SMs), or a specified communication module processor (CMP).	INH:SFTCHK-SM 5E15 and later
Requests that the reporting of software resource measurement information be inhibited for a switching module (SM).	INH:SRM 5E15 and later
Requests a list of all inhibited administrative module error conditions, including ERRINT, ERRSRC, HDWCHK, and SFTCHK.	OP:ERRCHK 5E15 and later

218. SOFT HAND-OFF

Topic/Purpose	Message ID/ Software Release Range
Requests a mapping of packet switching unit (PSU) community addresses (CA) to internet protocol (IP) addresses for IP soft hand-off (SHO) network connections within a given cluster or office.	OP:CA2IPMAP 5E20(1) and later
Requests the internet protocol (IP) connectivity status for protocol handler (PH) for ethernet version (PHEs) for both IP soft handoff (SHO) and network PH (NPH) PH group (PHGRP) on an intelligent packet switch (IPS).	OP:IPCON 5E20(1) and later
Requests monitoring of internet protocol (IP) traffic on a IP soft hand-off (SHO) group.	OP:IPTRFC 5E20(1) and later
Requests a listing of internet protocol (IP) soft hand-off (SHO) neighbors within a given cluster or office.	OP:NBRLIST 5E20(1) and later
Requests a packet switching unit (PSU) community address (CA) to internet protocol (IP)	QRY:CA2IPMAP

mapping (CA2IPMAP) query of all or specific IP neighbors in the IP address manager (AM) (IPAM) neighbor list for a given cluster or office.	5E20(1) and later
Requests a neighbor list (NBRLIST) query of all or specific internet protocol (IP) neighbors in the IP address manager (AM) (IPAM) neighbor list for a given cluster or office.	QRY:NBRLIST 5E20(1) and later
Requests a measurement of the quality of service in an internet protocol (IP) network.	TST:IPNET 5E20(1) and later
Requests a packet switching unit (PSU) community address (CA) to internet protocol (IP) mapping (CA2IPMAP) update of all or specific IP neighbors in the IP address manager (AM) (IPAM) neighbor list for a given cluster or office.	UPD:CA2IPMAP 5E20(1) and later
Requests a neighbor list (NBRLIST) update of all or specific internet protocol (IP) neighbors in the IP address manager (AM) (IPAM) neighbor list for a given cluster or office.	UPD:NBRLIST 5E20(1) and later

219. STATIC OFFICE DEPENDENT DATA

Topic/Purpose	Message ID/ Software Release Range
Requests that either the full or incremental static office-dependent data (SODD) audit, which is to execute automatically, be allowed.	ALW:AUD-SODD 5E15 and later
Format 1 restarts a full or incremental static office-dependent data (SODD) audit that was previously executing but was stopped for some reason, provided that the conditions permit it to be restarted.	EXC:AUD-SODD 5E15 and later
Requests an audit of the redundant (RED) relations to check for split translations in the static office-dependent data (SODD).	EXC:SODD-RED 5E15 and later
Displays the relation currently being audited by the redundant static office dependent data (SODD) audit (invoked by EXC:SODD,RED).	EXC:SODD-RED-OP 5E15 and later
Requests that the current static data audit be stopped.	EXC:SODD-STP 5E15 and later
Requests that the execution of either the full or incremental static office-dependent data (SODD) audit be inhibited.	INH:AUD-SODD 5E15 and later
Requests that one of the following be printed: the execution status of the static office-dependent data (SODD) audits; the full SODD audit's schedule; the status of the active SODD audit(s).	OP:AUD-SODD 5E15 and later
Requests the status of the full or incremental static office-dependent data (SODD) audit.	OP:ST-AUD-SODD 5E15 and later
Schedules the day, time, and duration for the full static office-dependent data (SODD) audit.	SCHED:AUD-SODD 5E15 and later
Requests the termination of an executing static office-dependent data (SODD) audit as indicated with the parameter list.	STP:AUD-SODD 5E15 and later

220. STATUS

Topic/Purpose	Message ID/ Software Release Range
Requests the output of the print mode, overload status, and initialization summary information for the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or packet switching unit protocol handler (PSUPH).	OP:ST 5E15 and later
Requests that the communication status between the Digital Cellular Switch and the *AUTOPLEX®* Executive Cellular Processor be queried.	OP:ST-APX 5E15 and later
Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.	OP:ST-AUD-SM-A 5E15 only
Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.	OP:ST-AUD-SM-B 5E16(1) and later
Requests the status of the full or incremental static office-dependent data (SODD) audit.	OP:ST-AUD-SODD 5E15 and later
Requests a report of the on/off status of the direct signaling events (DSE) trapping and printing.	OP:ST-DSE 5E15 and later
Requests a list of environments supporting the requested audit.	OP:ST-ENV-AUD

	5E16(1) and later
Requests a report of the on/off status of the intergrated services digital network (ISDN) user part (ISUP) events trapping and printing.	OP:ST-ISUP 5E15 and later
Requests information from internal registers of the link interface (LI) or the specified office network and timing complex (ONTC) side.	OP:ST-LI 5E15 and later
Requests the print status of all parts of the 24-hour plant report.	OP:ST-PLNT24 5E15 and later
Requests the status of active processes by specific class.	OP:ST-PROC 5E15 and later
Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.	OP:ST-PSLNK-A 5E15 and later
Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.	OP:ST-PSLNK-B 5E16(1) and later
Request to output the detailed status of a packet switching unit common controller (PSUCOM).	OP:ST-PSUCOM 5E21(1) and later
Requests status for quad-link packet switch protocol handler links (QPHLNKs) associated with a particular global switching module (GSM).	OP:ST-QPHLNK 5E15 and later
Requests status for quad-link packet switch protocol handler (QPH) QPIPEs on a HOST global switching module (GSM).	OP:ST-QPHPIPE 5E15 and later
Requests the status of all sections of the 30-minute traffic report.	OP:ST-TRFC30 5E15 and later
Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT).	OP:STATUS-A 5E15 only
Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT).	OP:STATUS-B 5E16(1) and later
Requests output of the switching module (SM) packet switch unit (PSU) timeslot usage for nailups.	OP:STATUS-PS 5E15 and later

221. STREAM CONTROL TRANSMISSION PROTOCOL

Topic/Purpose	Message ID/ Software Release Range
Requests the removal of a stream control transmission protocol (SCTP) by endpoint or association.	RMV:SCTP 5E16(2) and later
Requests the restoration of a stream control transmission protocol (SCTP) by endpoint or association.	RST:SCTP 5E16(2) and later
Requests that the processing and output of the stream control transmission protocol (SCTP) status be stopped.	STP:ST-SCTP 5E16(2) and later

222. STUCK COIN FAILURE

Topic/Purpose	Message ID/ Software Release Range
Requests a list of all stuck coin failures since the last time the periodic list was printed.	OP:SCF 5E15 and later

223. SUBSCRIBER LINE BUSY

Topic/Purpose	Message ID/ Software Release Range
Queries the digital network unit - synchronous optical network (SONET) (DNU-S) for the expected and received signal labels for synchronous transport signal facility (STSFAC).	OP:SL-A 5E15 only
Queries the digital network unit - synchronous optical network (SONET) (DNU-S) for the expected and received signal labels for synchronous transport signal facility (STSFAC).	OP:SL-B 5E16(1) only
Queries the digital network unit - synchronous optical network (SONET) (DNU-S) for the expected and received signal labels for synchronous transport signal facility (STSFAC).	OP:SL-C 5E16(2) and later

224. SUBSCRIBER LINE INSTRUMENT MEASUREMENT

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Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the subscriber line instrument measurement (SLIM) board be aborted.	ABT:SLIM 5E15 and later
Request to abort the subscriber line and instrument measurement (SLIM) routine mode test session.	ABT:TSESS 5E15 and later
Resume a subscriber line and instrument measurement (SLIM) routine mode test session that has previously been suspended.	ALW:TSESS 5E15 and later
Requests that a subscriber line instrument measurement (SLIM) board be diagnosed to determine whether it is in satisfactory working order.	DGN:SLIM 5E15 and later
Requests interactive diagnostics (exercises) of the subscriber line instrument measurement (SLIM) board.	EX:SLIM 5E15 and later
Request to suspends subscriber line and instrument measurement (SLIM) routine mode test session.	INH:TSESS 5E15 and later
Request to output the status of subscriber line and instrument measurement (SLIM) routine mode test session in ROP.	OP:TSESS 5E15 and later
Display, on the TLWS SLIM page 162, the status of subscriber line and instrument measurement (SLIM) routine mode test session.	OP:TSESS-DS 5E15 and later
Requests that a subscriber line instrument measurement (SLIM) board be removed from service.	RMV:SLIM 5E15 and later
Requests that a subscriber line instrument measurement (SLIM) board in the metallic service unit be conditionally or unconditionally restored to service.	RST:SLIM 5E15 and later
Requests that actions on the subscriber line instrument measurement (SLIM) board at a specified location be stopped.	STP:SLIM 5E15 and later

225. SUBSCRIBER LOOP CARRIER

225.1 *SLC®*-96 Digital Carrier Line Unit

Topic/Purpose	Message ID/ Software Release Range
Aborts actions on a *SLC®* 96 digital carrier line unit (DCLU).	ABT:DCLU 5E15 and later
Requests that a *SLC®* 96 digital carrier line unit (DCLU) be removed and diagnosed.	DGN:DCLU 5E15 and later
Interactively diagnoses (exercises) a *SLC®* 96 digital carrier line unit (DCLU).	EX:DCLU 5E15 and later
Requests a listing of the unassigned (UNA) lines, the integrated *SLC®* (ISLC) lines, and/or the integrated digital carrier unit (IDCU) lines within a specified range of directory numbers, *SLC®* line equipment numbers (SLENs), or IDCU line equipment numbers (ILENs).	OP:LISTOTO 5E15 and later
Requests that a *SLC®* 96 digital carrier line unit (DCLU) be removed from service.	RMV:DCLU 5E15 and later
Requests that a *SLC®* 96 digital carrier line unit (DCLU) be restored to service.	RST:DCLU 5E15 and later
Requests that actions on a specified *SLC®* 96 digital carrier line unit (DCLU) stop.	STP:DCLU 5E15 and later

226. *SLC®*-96 Digital Facility Interface

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on a *SLC®* 96 digital facility interface (SDFI).	ABT:SDFI 5E15 and later
Allows hardware error checks to be performed on the specified *SLC®* 96 digital facility interface (SDFI).	ALW:HDW-SDFI 5E15 and later
Requests that a *SLC®* 96 digital facility interface (SDFI) circuit be removed and diagnosed.	DGN:SDFI

	5E15 and later
Interactively diagnoses (exercises) a *SLC®* 96 digital facility interface (SDFI).	EX:SDFI 5E15 and later
Inhibits the hardware error checks performed on the specified *SLC®* 96 digital facility interface (SDFI).	INH:HDW-SDFI 5E15 and later
Requests that a *SLC®* 96 digital facility interface (SDFI) be removed from service.	RMV:SDFI 5E15 and later
Restores either conditionally or unconditionally a *SLC®* 96 digital facility interface (SDFI) to service.	RST:SDFI 5E15 and later
Requests that actions on a specified *SLC®* 96 digital facility interface (SDFI) be stopped.	STP:SDFI 5E15 and later

227. SWITCHING CONTROL CENTER

Topic/Purpose	Message ID/ Software Release Range
Requests specific information about a switching control center (SCC).	OP:SCC 5E15 and later
Outputs the current firmware version of the CM3 ONTC or CM3 MSGS requested at the Master Control Center (MCC) and the Switching Control Center (SCC).	OP:VERS 5E15 and later
Requests that the specified Switching Control Center (SCC) data link subdevice be removed from service.	RMV:SCC 5E15 and later
Restores the specified Switching Control Center (SCC) data link subdevice to service.	RST:SCC 5E15 and later

228. SWITCHING MODULE

Topic/Purpose	Message ID/ Software Release Range
Allows a switching module (SM) audit to execute automatically or an audit cycle to execute routinely on one SM or a range of SMs.	ALW:AUD-SM 5E15 and later
Permits the redistribution of call pick up (CPU) queues from one switching module (SM) to another SM based on the resources available per SM.	ALW:CPUQADM 5E15 and later
Requests that the per-call test failure (PCTF) verbose mode be allowed.	ALW:PCTF 5E15 and later
Requests that generic utility WHEN breakpoint clauses in the switching module (SM) be allowed or enabled.	ALW:UT-SM 5E15 and later
Requests a switching module (SM) audit to be run in one SM or a range of SMs.	AUD:SM 5E15 and later
Requests that one specific WHEN clause or all WHEN clauses be removed from both the application program and the memory of the switching module (SM).	CLR:UT-SM 5E15 and later
Requests that a value be copied into an address, register, variable, or utility variable of the switching module (SM), and can perform specific operations.	COPY:UT-SM-A 5E15 - 5E16(1)
Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the switching module (SM), and can perform specific operations.	COPY:UT-SM-B 5E16(2) and later
Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.	DUMP:UT-SM-A 5E15 only
Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.	DUMP:UT-SM-B 5E16(1) only
Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.	DUMP:UT-SM-C 5E16(2) and later
Conditional ELSE input message used with the IF input message will perform any switching module (SM) generic utility input messages following it, provided the IF input message comparison is not true.	ELSE:UT-SM 5E15 and later
Requests that a series of switching module (SM) generic utility input messages be ended.	END:UT-SM 5E15 and later
Format 1 requests that an unconditional call to a function using parameters in the specified	EXC:UT-SM-A

switching module (SM) be executed.	5E15 - 5E16(1)
Format 1 requests that an unconditional call to a function using parameters in the specified switching module (SM) be executed.	EXC:UT-SM-B 5E16(2) and later
Requests that a constant or variable in a switching module's (SM) memory be compared against another constant or variable in the SM memory.	IF:UT-SM-A 5E15 - 5E16(1)
Requests that a constant or variable in a switching module's (SM) memory be compared against another constant or variable in the SM memory.	IF:UT-SM-B 5E16(2) and later
Requests that the end of an IF-ELSE statement be signified in the switching module (SM) and must be used together with the IF:UT-SM input message.	IF:UT-SM-ENDIF 5E15 and later
Requests that the per-call test failure (PCTF) verbose mode be inhibited.	INH:PCTF 5E15 and later
Requests that a specific generic utility WHEN clause in the switching module (SM), or all such active clauses, be inhibited.	INH:UT-SM 5E15 and later
Requests initialization of the selected switching modules (SMs) at the specified level.	INIT:SM-A 5E15 - 5E16(1)
Requests initialization of the selected switching modules (SMs) at the specified level.	INIT:SM-B 5E16(2) and later
Requests a single process purge (SPP) of a named process in a selected switching module (SM).	INIT:SM-SPP 5E15 and later
Requests that a value(s) be loaded into the memory of the specified switching module (SM).	LOAD:UT-SM 5E15 and later
Requests the current configuration status (CFGSTAT) of switching module (SM) circuits.	OP:CFGSTAT-SM 5E15 and later
Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.	OP:EQSTAT-A 5E15 - 5E16(1)
Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.	OP:EQSTAT-B 5E16(2) and later
Requests a list of all per-call test failures (PCTFs) that have occurred in all switching modules (SMs), a range of SMs, or a particular SM since the last time the periodic list was printed.	OP:PCTF 5E15 and later
Requests a common channel interoffice signaling (CCIS) measurement report.	OP:SMR 5E15 and later
Requests information on switching modules (SMs) assigned to terminals using switching module system test (SMST) routing.	OP:SMST 5E15 and later
Requests that the terminal assigned to indicated switching modules (SMs) for switching module system test (SMST) routing be released.	RLS:SMST 5E15 and later
Requests that all output messages originating from the specified switching modules (SMs) be routed to the terminal at which this input message is entered in addition to other normal locations where such output would appear.	RTE:SMST 5E15 and later
To request a graceful stop of the currently printing per call test failure (PCTF) summary.	STP:PCTF 5E15 and later
Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).	WHEN:UT-SM-A 5E15 - 5E16(1)
Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).	WHEN:UT-SM-B 5E16(2) and later

228.1 Switching Module Peripheral Error

Topic/Purpose	**Message ID/ Software Release Range**
Requests that the verbose status in a single switching module (SM) or a range of SMs be cleared.	CLR:PERPH-SM 5E15 and later
Requests a summary of peripheral transient errors on switching modules (SMs).	OP:PERPH-SM-SUM 5E15 and later
Requests that the verbose status in a single switching module (SM) or a range of SMs be set.	SET:PERPH-SM 5E15 and later

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228.2 Host Switching Module Digital Facility Interface

Topic/Purpose	Message ID/ Software Release Range
Requests that maintenance actions on the host switching module (HSM) digital facilities interface (HDFI) circuit be aborted.	ABT:HDFI 5E15 and later
Allows hardware error checks to be performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.	ALW:HDW-HDFI 5E15 and later
Requests that automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be allowed on a major initialization (selective initialization or full initialization).	ALW:PUMP 5E15 and later
Takes one or more switching modules (SMs) out of isolation.	CLR:ISOL-SM 5E15 and later
Clears the selected switching modules (SMs) from minimum mode (minmode) by resetting the appropriate SM inhibits and performing a full initialization.	CLR:MINMODE-SM 5E15 and later
Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be diagnosed to determine if it is in working order.	DGN:HDFI 5E15 and later
Performs maintenance exercises on the host switching module (HSM) digital facilities interface (HDFI) circuit.	EX:HDFI 5E15 and later
Inhibits the hardware error checks performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.	INH:HDW-HDFI 5E15 and later
Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be removed from service.	RMV:HDFI 5E15 and later
Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be restored to service.	RST:HDFI 5E15 and later
Requests that a switching module (SM) or a range of SMs be isolated.	SET:ISOL-SM 5E15 and later
Requests that the common network interface (CNI) system be placed into min mode.	SET:MINMODE-CNI 5E15 and later
Requests that the selected switching module (SMs) be placed in minimum mode (minmode).	SET:MINMODE-SM 5E15 and later
Requests that maintenance actions on the host switching module (HSM) digital facilities interface (HDFI) circuit be stopped.	STP:HDFI 5E15 and later
Requests that the automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be inhibited on a major initialization (selective initialization or full initialization).	INH:PUMP-SM 5E15 and later

229. SYNCHRONOUS DATA LINK

Topic/Purpose	Message ID/ Software Release Range
Requests specific information about a synchronous data link (SDL).	OP:SDL 5E15 and later
Requests specific information about a synchronous data link controller (SDLC).	OP:SDLC 5E15 and later
Requests that the specified synchronous data link (SDL) subdevice be removed from service.	RMV:SDL 5E15 and later
Restores the specified synchronous data link (SDL) subdevice to service.	RST:SDL 5E15 and later

229.1 Synchronous Data Link Controller

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified synchronous data link controller (SDLC).	DGN:SDLC 5E15 and later
Exercises a synchronous data link controller (SDLC) in an interactive diagnostic mode.	EX:SDLC 5E15 and later

Requests that the specified synchronous data link controller (SDLC) be removed from service.	RMV:SDLC 5E15 and later
Conditionally or unconditionally restores a synchronous data link controller (SDLC) to service.	RST:SDLC 5E15 and later

230. SYNCHRONOUS TRANSPORT SIGNAL

Topic/Purpose	Message ID/ Software Release Range
Requests that the currently executing maintenance action on a synchronous transport signal - level 1 (STS1) be aborted.	ABT:STS1 5E16(1) and later
Requests that the currently executing maintenance action on a synchronous transport signal - level 3 concatenated (STS3C) facility be aborted.	ABT:STS3C 5E16(2) and later
This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE.	OP:PTRC-A 5E16(1) only
This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE.	OP:PTRC-B 5E16(2) and later
Requests that a synchronous transport signal - level 1 (STS1) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:STS1 5E16(1) and later
Requests that a synchronous transport signal - level 3 concatenated (STS3C) facility be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:STS3C 5E16(2) and later
Requests that a synchronous transport signal - level 1 (STS1) be restored to service.	RST:STS1 5E16(1) and later
Requests that a synchronous transport signal - level 3 concatenated (STS3C) facility be restored to service.	RST:STS3C 5E16(2) and later
Requests that the currently executing maintenance action on a synchronous transport signal - level 1 (STS1) be stopped.	STP:STS1 5E16(1) and later
Requests that the currently executing maintenance action on a synchronous transport signal - level 3 concatenated (STS3C) facility be stopped.	STP:STS3C 5E16(2) and later

231. SYSTEM TAPE

Topic/Purpose	Message ID/ Software Release Range
Requests verification of the readability of information on administrative module (AM) tapes and the consistency of corresponding hash sums.	VFY:TAPE 5E15 and later

232. T1 FACILITY

Topic/Purpose	Message ID/ Software Release Range
Requests abort of maintenance actions on a remote switching module (RSM) facility (FAC) or a trunk FAC.	ABT:FAC 5E15 and later
Requests that a specified action on an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be aborted.	ABT:IFAC 5E15 and later
Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.	ALW:FAC-A 5E15 only
Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.	ALW:FAC-B 5E16(1) only

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Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), digital networking unit - synchronous optical network (SONET) (DNU-S) number or session initiation protocol (SIP) protocol handler (PH) on a packet switch unit (PSU).	ALW:FAC-C 5E16(2) and later
Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) facility (IFAC) circuit.	ALW:HDW-IFAC 5E15 and later
Requests that protection line switch requests be allowed to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) or requests that a DS1 be allowed to be released from protection.	ALW:RT-FAC 5E15 and later
Requests that the message transfer part (MTP) route verification test (MRVT) delay parameter, which is used in the calculation of the T1 timer, be changed or displayed.	CHG:MRVT 5E15 and later
Requests that a far end loop process (FELP) or a protection (PROT) configuration request be cleared for a particular digital signal level one (DS1) facility (FAC).	CLR:RT-FAC 5E15 and later
Requests the disabling of the option of having the switching module (SM) status indicator updated to off-normal (OFFN) when a remote terminal (RT) T1 is in an off-normal state.	CLR:RT-FACOFFN 5E15 and later
Requests that protection line switch requests to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) circuit be inhibited or requests that a DS1 currently on protection be taken off of protection.	INH:RT-FAC 5E15 and later
Requests initialization of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S).	INIT:FAC-A 5E15 only
Requests initialization of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), a digital networking unit - synchronous optical network (SONET) (DNU-S), or an optical interface unit (OIU).	INIT:FAC-B 5E16(1) only
Requests initialization of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), a digital networking unit - synchronous optical network (SONET) (DNU-S), or an optical interface unit (OIU).	INIT:FAC-C 5E16(2) and later
Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.	OP:FAC-A 5E15 only
Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.	OP:FAC-B 5E16(1) only
Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.	OP:FAC-C 5E16(2) and later
Request output containing the busy/idle status of umbilical T1 facility channels between a host switching module (HSM) and remote switching module (RSM).	OP:FACMAP 5E15 and later
Requests the value of the switching module (SM) status indicator.	OP:RT-FACOFFN 5E15 and later
Requests removal of a remote switching module (RSM) facility (FAC) or a trunk FAC from service.	RMV:FAC 5E15 and later
Requests that an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:IFAC 5E15 and later
Requests restoration of a remote switching module (RSM) facility (FAC) or a trunk FAC to service.	RST:FAC 5E15 and later
Requests that an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be restored to service.	RST:IFAC 5E15 and later
Requests that a far end loop process (FELP) or a protection configuration request (PROT) be	SET:RT-FAC

set for a particular digital signal level one (DS1) facility (FAC).	5E15 and later
Requests enabling of the option to update the switching module (SM) status indicator to off-normal when a remote terminal (RT) T1 is in an off-normal state.	SET:RT-FACOFFN 5E15 and later
Requests that maintenance actions be stopped on a remote switching module (RSM) facility (FAC) or a trunk FAC.	STP:FAC 5E15 and later
Requests that action on an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be stopped.	STP:IFAC 5E15 and later
Requests a test (connectivity exercise) of the connection of a remote switching module (RSM) facility (FAC).	TST:FAC 5E15 and later

233. TAPE WRITER

Topic/Purpose	Message ID/ Software Release Range
Requests that the copying of the boot disk to tape be stopped.	STOP:BKDISK 5E15 and later
Stops any CMPR:MHD input messages that are currently executing.	STOP:CMPR-MHD 5E15 and later
Stops any COPY:DIFF:SRC input messages that are currently executing.	STOP:COPY-DIFF 5E15 and later
Requests that the copy of the boot disk to tape be stopped.	STP:BKDISK 5E15 and later

234. TELETYPEWRITER

Topic/Purpose	Message ID/ Software Release Range
Requests specific information about a teletypewriter (TTY).	OP:TTY 5E15 and later
Requests specific information about a teletypewriter controller (TTYC).	OP:TTYC 5E15 and later
Requests that the specified teletypewriter (TTY) be removed from service.	RMV:TTY 5E15 and later
Unconditionally restores the specified teletypewriter (TTY) to service.	RST:TTY 5E15 and later

234.1 Teletypewriter Controller

Topic/Purpose	Message ID/ Software Release Range
Diagnoses the specified teletypewriter controller (TTYC).	DGN:TTYC 5E15 and later
Exercises a teletypewriter controller (TTYC).	EX:TTYC 5E15 and later
Requests that the specified teletypewriter controller (TTYC) and any associated teletypewriters be removed from service.	RMV:TTYC 5E15 and later
Conditionally or unconditionally restores a teletypewriter controller (TTYC) to service.	RST:TTYC 5E15 and later

235. TEST AND ACCESS CIRCUIT

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the test and access circuit (TAC) be aborted at the specified location.	ABT:TAC 5E15 and later
Allows hardware error checks to be performed on the specified test and access circuit (TAC).	ALW:HDW-TAC 5E15 and later

Requests that a test and access circuit (TAC) be diagnosed to determine whether it is in satisfactory working order.	DGN:TAC 5E15 and later
Interactively diagnoses (exercises) the test and access circuit (TAC).	EX:TAC 5E15 and later
Inhibits the hardware error checks performed on the specified test and access circuit (TAC).	INH:HDW-TAC 5E15 and later
Requests that a test and access (TAC) circuit be removed from service.	RMV:TAC 5E15 and later
Restores either conditionally or unconditionally a test and access (TAC) circuit in a trunk unit to service.	RST:TAC 5E15 and later
Requests that actions on the trunk and access (TAC) circuit at the specified location be stopped.	STP:TAC 5E15 and later

236. TIME OF DAY

Topic/Purpose	Message ID/ Software Release Range
Requests that the display of the time of day (TOD) database update failure message be allowed.	ALW:TOD 5E15 and later
Inhibits the display of time of day (TOD) data base update failure message.	INH:TOD 5E15 and later

237. TESTING

Topic/Purpose	Message ID/ Software Release Range
Requests that the wireless test set will be assigned to an *Air Extension*^{SM} user's analog line so that the maintenance personnel can test an user's wireless service without requiring the user's handset phone.	ASGN:TESTSET 5E15 and later
Requests that the set of test sets defined in the WNC and their current state be listed out.	OP:TESTSET 5E15 and later
Request that the wireless test set assigned through ASGN:TESTSET will be de-assigned manually so that the wireless service will be returned to the user.	RLS:TESTSET 5E15 and later
Requests that a currently-running (manually-requested) electronic loop segregation (ELS) test be stopped.	STP:TST-ELS 5E15 and later
Requests a manual direct link node (DLN) "heartbeat test" execution for a specific switching module (SM).	TST:DLNHB 5E15 and later
Requests that an inward wide area telecommunications service (INWATS) direct signaling query be sent to the INWATS database to verify its operation.	TST:INWATS 5E15 and later
Requests a test of a modem pool (MP).	TST:MP 5E15 and later
Requests that a network call denial (NCD) query be sent to the NCD database to verify its operation.	TST:NCD 5E15 and later
Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the service control point (SCP) and the switch.	TST:NS800 5E15 and later
Requests that a rate query be sent to the real time rating system (RTRS) database to verify its operation.	TST:RATE 5E15 and later
Requests an automatic voice frequency link (VFL) test for a specified common channel signaling (CCS) link.	TST:VFL 5E15 and later

238. TIME MULTIPLEX SWITCH

Topic/Purpose	Message ID/ Software Release Range
Aborts a diagnostic or exercise on the time multiplexed switch (TMS) on the specified office network and timing complex (ONTC).	ABT:TMS 5E15 and later
Aborts a diagnostic, remove, or restore, on the time multiplexed switch (TMS) fabric pair	ABT:TMSFP

(TMSFP) for the specified office network and timing complex (ONTC).	5E16(2) and later
Requests that the time multiplex switch (TMS) in the specified office network and timing complex (ONTC) be diagnosed.	DGN:TMS 5E15 and later
Requests diagnostics for the time multiplexed switch (TMS) fabric pair (TMSFP) on the specified office network and timing complex (ONTC).	DGN:TMSFP 5E16(2) and later
Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs).	DUMP:TMS-A 5E15 - 5E16(1)
Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs) and related information.	DUMP:TMS-B 5E16(2) and later
Requests that the time multiplexed switch (TMS) be exercised in an interactive mode.	EX:TMS 5E15 and later
Requests that a value(s) be loaded into the memory of the specified time multiplex switch (TMS).	LOAD:UT-TMS 5E15 and later
Requests a unconditional restore of a quad-link packet switch (QLPS) time multiplexed switch link (QTMSLNK) to the active state.	RST:QTMSLNK 5E15 and later
Requests that a specified time multiplexed switch link (TMSLNK) be restored to service.	RST:TMSLNK-A 5E15 - 5E16(2)
Requests that a specified time multiplexed switch link (TMSLNK) be restored to service.	RST:TMSLNK-B 5E16(2) and later

238.1 Time Multiplexed Switch Fabric Pair

Topic/Purpose	Message ID/ Software Release Range
Requests that a specified time multiplexed switch (TMS) fabric pair (TMSFP) be removed from service.	RMV:TMSFP 5E16(2) and later
Requests that a specified time multiplexed switch (TMS) fabric pair (TMSFP) be restored to service.	RST:TMSFP 5E16(2) and later
Stops a diagnostic, remove, or restore, on the time multiplexed switch (TMS) fabric pair (TMSFP) for the specified office network and timing complex (ONTC).	STP:TMSFP 5E16(2) and later
Requests that all lines assigned to a specific call pickup group (CPUG) number or lines having a form of directed call pickup be queried and reported.	VFY:CPU 5E15 and later

239. TIMESLOT MANAGEMENT CHANNEL

Topic/Purpose	Message ID/ Software Release Range
Requests that information describing the configuration of the embedded operations channel (EOC) and timeslot management channel (TMC) for the specified remote terminal (RT) be displayed.	OP:RT-CHAN 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:DNUSTMC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:IDCUTMC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:RT-TMC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.	RST:DNUSTMC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.	RST:IDCUTMC 5E15 and later
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.	RST:RT-TMC 5E15 and later
Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.	STP:DNUSTMC 5E15 and later
Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit	STP:IDCUTMC

be stopped.	5E15 and later
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).	SW:DNUSTMC 5E15 and later
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).	SW:IDCUTMC 5E15 and later
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).	SW:RT-TMC 5E15 and later

240. TRACE ROUTE

Topic/Purpose	Message ID/ Software Release Range
Trace route (TRCRT), traces the route between two hosts using internet control message protocol (ICMP) error messages to identify the routers forwarding network traffic from one host to the other.	EXC:TRCRT 5E19(1) and later
Stop currently running trace route (TRCRT).	STP:TRCRT 5E20(1) and later

241. TRAFFIC MEASUREMENT

Topic/Purpose	Message ID/ Software Release Range
Requests that the 15-minute traffic report be allowed to be output to the ROP.	ALW:TRFC15 5E15 and later
Requests that the specified section of the 30-minute traffic report be allowed to be collected (CLCT) or output to the traffic channel (TRFCH) or ROP every 30 minutes.	ALW:TRFC30-A 5E15 - 5E17(1)
Requests that the specified section of the 30-minute traffic report be allowed to be collected (CLCT) or output to the traffic channel (TRFCH) or ROP every 30 minutes.	ALW:TRFC30-B 5E18(1) - 5E19(1)
Requests that the specified section of the 30-minute traffic report be allowed to be collected (CLCT) or output to the traffic channel (TRFCH) or ROP every 30 minutes.	ALW:TRFC30-C 5E20(1) and later
Requests a backup of the traffic measurements settings to disk.	BKUP:TRFM 5E16(1) and later
Requests that the 15-minute traffic report be inhibited from being output to the ROP.	INH:TRFC15 5E15 and later
Requests the inhibition of the collection or outputting of the specified section of the 30-minute traffic report.	INH:TRFC30-A 5E15 - 5E17(1)
Requests the inhibition of the collection or outputting of the specified section of the 30-minute traffic report.	INH:TRFC30-B 5E18(1) and later
Requests the output of the list of measured carriers.	OP:MEASIC 5E15 and later
Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNTHR), traffic 15 (TRFC15), and all sections of the traffic 30 (TRFC30) reports.	OP:MEASTAT-A 5E15 - 5E19(1)
Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNTHR), traffic 15 (TRFC15), and all sections of the traffic 30 (TRFC30) reports.	OP:MEASTAT-B 5E20(1) and later
Report the collection status in transient collection buffers for TRFC30 traffic data collection (TDC) sections.	OP:MEASTAT-MEM 5E20(1) and later
Requests the 15-minute traffic report at a time other than the regularly scheduled time.	OP:TRFC15 5E15 and later
Requests the immediate output of the specified section of the 30-minute traffic report.	OP:TRFC30 5E15 and later
Requests a restore of a traffic measurements settings.	RST:TRFM-A 5E16(1) - 5E16(2)
Requests a restore of a traffic measurements settings.	RST:TRFM-B 5E17(1) and later

242. TRANSFER

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Topic/Purpose	Message ID/ Software Release Range
Requests that the remote file transfer system be started, stopped or status be reported.	IN:XFER 5E15 and later

243. TRANSACTIONS

Topic/Purpose	Message ID/ Software Release Range
Requests that all active office-dependent data (ODD) database transactions be cleared in the administrative module (AM), the communication module processor (CMP) and all switching modules (SMs).	CLR:TRN 5E15 and later
Requests that an American National Standards Institute (*ANSI*®) transaction capabilities application part (TCAP) type I test query be sent to a billing validation database to verify its operation.	TST:AT1 5E15 and later

244. TRANSLATIONS

Topic/Purpose	Message ID/ Software Release Range
Requests a conversion (translation) for a particular trunk, line, data link, or operator services position system port (OSPSPORT).	OP:CONV-A 5E15 only
Requests a conversion (translation) for a particular trunk, line, data link, or operator services position system port (OSPSPORT).	OP:CONV-B 5E16(1) and later
Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.	OP:CONV-EXT-A 5E15 only
Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.	OP:CONV-EXT-B 5E16(1) - 5E20(1)
Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.	OP:CONV-EXT-C 5E21(1) and later
Requests that translation information for a particular circuit, from its internal identifier to its external identifier.	OP:CONV-INT 5E9(2) and later
Convert from a given protocol handler (PH) for asynchronous transfer mode (ATM) (PHA) to the associated packet switch unit (PSU) link and channel that it services.	OP:CONV-PHA-A 5E15 only
Convert from a given protocol handler (PH) for asynchronous transfer mode (ATM) (PHA) to the associated packet switch unit (PSU) link and channel that it services.	OP:CONV-PHA-B 5E16(1) and later
Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.	OP:CONV-PSLNK-A 5E15 only
Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.	OP:CONV-PSLNK-B 5E16(1) only
Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.	OP:CONV-PSLNK-C 5E16(2) and later
Requests consolidated routing information based on requested digit analysis selector (DAS).	OP:DIGTRC 5E15 and later
Requests output of a complete routing pattern based on input information.	OP:RTITRC 5E15 and later

245. TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL

Topic/Purpose	Message ID/ Software Release Range
The transmission control protocol/internet protocol (TCP/IP) Address resolution protocol (ARP) cache input message to show the ARP cache entries of a protocol handler (PH).	OP:TCPIP-ARPDMP 5E16(2) and later

The TCP/IP route dump input message is used to verify TCP/IP routing tables in an SM or PH.	OP:TCPIP-RTDMP 5E15 and later

246. TRANSMISSION RATE CONVERTER UNIT

Topic/Purpose	Message ID/ Software Release Range
Requests a print-out of the transmission rate converter unit (TRCU) information assotiated with the specified TRCU path (TRCP) or the TRCU3 control time slot (TCTS) number.	OP:TRCU 5E15 and later
This request is used to "force" active a particular function pack pair of a transmission rate conversion unit - model III (TRCU3) circuit.	SET:FRC-TRCU3 5E15 and later

247. TRANSMISSION TEST FACILITY COMMON BOARD

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the test transmission facility common (TTFCOM) circuit be aborted at the specified location.	ABT:TTFCOM 5E15 and later
Allows hardware error checks to be performed on the specified transmission test facility common (TTFCOM) circuit pack.	ALW:HDW-TTFCOM 5E15 and later
Requests that a transmission test facility common (TTFCOM) circuit be diagnosed to determine whether it is in satisfactory working order.	DGN:TTFCOM 5E15 and later
Interactively diagnoses (exercises) the transmission test facility common (TTFCOM) circuit.	EX:TTFCOM 5E15 and later
Inhibits the hardware error checks performed on the specified transmission test facility common (TTFCOM) circuit pack.	INH:HDW-TTFCOM 5E15 and later
Requests that a transmission test facility common (TTFCOM) circuit pack be removed from service.	RMV:TTFCOM 5E15 and later
Conditionally or unconditionally restores a transmission test facility common (TTFCOM) board in a global digital service unit (GDSU) to service.	RST:TTFCOM 5E15 and later
Requests that actions on the transmission test facility common (TTFCOM) board at the specified location be stopped.	STP:TTFCOM 5E15 and later

248. TRUNK AND LINE WORK STATION

Topic/Purpose	Message ID/ Software Release Range
Requests that an active trunk and line work station (TLWS) maintenance task or an *AUTOPLEX®* automatic task administrator (AATA) maintenance task be aborted.	ABT:TASK 5E15 and later
Requests that an active trunk and line work station (TLWS) maintenance task be aborted.	ABT:TASK-TLWS 5E15 and later
Requests that the position busy (PB) indicator be cleared at certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) assigned to receive incoming 101 test line calls.	CLR:PB 5E15 and later
Clears the status of a route making it available, and stops the signaling route set test (SRST) for the route.	CLR:SRST-DPC 5E15 and later
Requests that the trunk and line work station (TLWS) test position (TP) digital testing defaults be reset to the system defaults.	CLR:WSDGTL 5E15 and later
Requests that the frequency and level be cleared at a particular trunk and line work station (TLWS) test position (TP).	CLR:WSFREQ 5E15 and later
Requests that the digits that are used for automatic outpulsing on the trunk associated with the indicated trunk and line work station (TLWS) test position (TP) be cleared.	CLR:WSOPD 5E15 and later
Requests seizure of an incoming 101TL (test-line) call at a trunk and line work station (TLWS) test position (TP).	CONN:WSIC 5E15 and later
Requests connection of the specified line or trunk at the trunk and line work station (TLWS) test position (TP) to a test access unit (TAU) jack.	CONN:WSJACK 5E15 and later
Requests seizure of (connection to) a line for interactive trunk and line work station (TLWS)	CONN:WSLINE

testing.	5E15 and later
Requests to connect the trunk and line work station (TLWS) talk-and-monitor (T&M) phone with the current line or trunk associated with the test position (TP).	CONN:WSPHONE 5E15 and later
Requests that the port (line or trunk) that is associated with the specified trunk and line work station (TLWS) test position (TP) be re-seized.	CONN:WSPORT-A 5E15 - 5E16(1)
Requests that the port [line, trunk or signaling data link (SDL)] that is associated with the specified trunk and line work station (TLWS) test position (TP) be re-seized.	CONN:WSPORT-B 5E16(2) and later
Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS) testing.	CONN:WSTRK-A 5E15 only
Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS) testing.	CONN:WSTRK-B 5E16(1) only
Requests seizure of (connection to) a trunk or signaling data link (SDL) for interactive trunk and line work station (TLWS) testing.	CONN:WSTRK-C 5E16(2) and later
Requests that the line that is associated with the specified trunk and line work station (TLWS) test position (TP) be disconnected.	DISC:WSLINE 5E15 and later
Requests that the trunk and line work station (TLWS) talk-and-monitor (T&M) phone be disconnected from the indicated test position (TP).	DISC:WSPHONE 5E15 and later
Requests that the port (line or trunk) that is associated with the specified trunk and line work station (TLWS) test position (TP) be disconnected.	DISC:WSPORT-A 5E15 - 5E16(1)
Requests that the port [line, trunk or signaling data link (SDL)] that is associated with the specified trunk and line work station (TLWS) test position (TP) be disconnected.	DISC:WSPORT-B 5E16(2) and later
Requests that the trunk that was associated with the specified trunk and line work station (TLWS) test position (TP) using an earlier CONN:WSTRK or CONN:WSIC input message be released.	DISC:WSTRK 5E15 and later
Requests the display of the position busy (PB) and not position busy (NPB) status of each of the trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test calls.	OP:PB 5E15 and later
Requests the immediate or automatic printing of test results from the specified trunk and line work station (TLWS) test position (TP).	OP:WSDATA 5E9(1) and later
Requests the testing status of one or all trunk and line work station (TLWS) test positions (TP).	OP:WSSTAT 5E15 and later
Releases a trunk and line work station (TLWS) test position (TP).	RLS:WSPOS-A 5E15 - 5E16(1)
Releases a trunk and line work station (TLWS) test position (TP).	RLS:WSPOS-B 5E16(2) and later
Stops the test in progress and releases the associated testing hardware [such as, global digital services function (GDSF), transmission test facility (TTF) or directly connected test unit (DCTU)] at the indicated trunk and line work station (TLWS) test position (TP).	RLS:WSTST 5E15 and later
Requests that the position busy (PB) indicator of certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test line calls be set.	SET:PB 5E15 and later
Requests setting the trunk and line work station (TLWS) test position (TP) digital testing defaults.	SET:WSDGTL 5E15 and later
Requests setting the trunk and line work station (TLWS) test position (TP) frequency and/or level.	SET:WSFREQ 5E15 and later
Requests to set the digits that are to be used for automatic outpulsing on a trunk associated with the indicated trunk and line work station (TLWS) test position (TP).	SET:WSOPD 5E15 and later
Requests that the mode of the trunk and line work station (TLWS) talk-and-monitor (T&M) phone connected to the indicated test position (TP) be set.	SET:WSPHONE 5E15 and later
Requests a trunk and line work station (TLWS) test position (TP) and testing resources (ID) to associate with the terminal issuing this input message.	SET:WSPOS 5E15 and later
Requests to stop the action of a test at the trunk and line work station (TLWS) test position (TP) started by a digital, metallic, supervision, or transmission test request.	STP:WSTST 5E15 and later
Requests trunk and line work station (TLWS) automatic tests.	TST:WSAUTO 5E15 and later
Requests a test of customer premises equipment (CPE) connected to a digital subscriber line (DSL) at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line input message.	TST:WSCPE 5E15 and later
Requests digital testing on the port seized at the trunk and line work station (TLWS) test	TST:WSDGTL

position (TP).	5E15 and later
Requests to measure signal characteristics in a transmission test on the line or trunk that was seized at the trunk and line work station (TLWS) test position (TP).	TST:WSMEAS 5E15 and later
Requests testing the metallic characteristics of the line or trunk attached to a trunk and line work station (TLWS) test position (TP).	TST:WSMET 5E15 and later
Requests MONITOR access to either a busy or idle port at the trunk and line work station (TLWS) test position (TP), depending on the mode option chosen in the input message.	TST:WSMNTR 5E15 and later
Requests that a tone be sent over, or a termination be applied to, the port currently seized at the trunk and line station (TLWS) test position (TP).	TST:WSSEND 5E15 and later
Requests that supervision characteristics of the line or trunk be tested at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line, trunk, or incoming call input message.	TST:WSSUPV-A 5E15 - 5E16(1)
Requests that supervision characteristics of the line, trunk or signaling data link (SDL) be tested at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line, trunk, SDL port, or incoming call input message.	TST:WSSUPV-B 5E16(2) and later

249. TRUNK EQUIPMENT NUMBER

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the trunk equipment number (TEN) be aborted at the specified location.	ABT:TEN 5E15 and later
Allows hardware error checks to be performed on the specified trunk equipment number (TEN).	ALW:HDW-TEN 5E15 and later
Requests that a trunk equipment number (TEN) be diagnosed to determine whether it is in satisfactory working order.	DGN:TEN 5E15 and later
Interactively diagnoses (exercises) the trunk equipment number (TEN).	EX:TEN 5E15 and later
Inhibits the hardware error checks performed on the specified trunk equipment number (TEN) circuit.	INH:HDW-TEN 5E15 and later
Requests that the analog trunk specified by the trunk equipment number (TEN) be removed from service.	RMV:TEN 5E15 and later
Restores either conditionally or unconditionally a single analog trunk in a trunk unit specified by a trunk equipment number (TEN) circuit in a trunk unit to service.	RST:TEN 5E15 and later
Requests that actions on the analog trunk specified by the trunk equipment number (TEN) be stopped.	STP:TEN 5E15 and later

250. TRUNK GROUPS

Topic/Purpose	Message ID/ Software Release Range
Assigns trunk groups to the network management (NM) schedule (SCH).	ASGN:DPSCH 5E15 and later
Removes trunk groups displayed in the TRUNK block of the defense switched network (DSN) network management (NM) exception page (page 129) from display boxes; however it keeps the trunk groups in the NM schedule.	CLR:TRKDP 5E15 and later
Requests that monitoring be stopped of a trunk group marked with stop-go signaling.	CLR:TRUNK 5E15 and later
Initiates the common channel signaling (CCS) translation test (or circuit validation) for a specific CCS7 trunk.	EXC:CCSXLATE 5E15 and later
Requests that the inhibit for the periodic signaling link test (PSLT) be set, reset or reported.	INH:PSLT 5E15 and later
Requests the specified trunk group marked with stop-go signaling be monitored.	MON:TRUNK 5E15 and later
Lists a history over the immediate previous two hours of attempts per circuit per hour (ACH) and connections per circuit per hour (CCH) taken every 5 minutes for a given trunk group displayed in the TRUNK block of the defense switched network (DSN) network management	OP:ACCH 5E15 and later

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(NM) exception page.	
Requests that all dynamic overload controls (DOCs) specified for the office be listed, or lists the control for a single trunk group.	OP:DOC 5E15 and later
Report the status of inhibited or allowed for the periodic signaling link test (PSLT).	OP:PSLT 5E15 and later
Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists.	OP:TERACNTS-A 5E15 only
Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists.	OP:TERACNTS-B 5E16(1) and later
Reports (outputs) the total number of trunks in a trunk group, the number of in-service trunks, the number of out-of-service (OOS) trunks, and an indicator if the counts may be invalid.	OP:TGCNT 5E15 and later
Requests report of trunks being held off-hook and out-of-service.	OP:TRUNK 5E15 and later
Establishes or releases a connection between a network digital loop and a specific digital trunk.	ORD:DLOOP-A 5E15 only
Establishes or releases a connection between a network digital loop and a specific digital trunk.	ORD:DLOOP-B 5E16(1) only
Establishes or releases a connection between a network digital loop and a specific digital trunk.	ORD:DLOOP-C 5E16(2) and later
Establishes or releases a connection between a network 1004 Hz tone and a specific digital trunk.	ORD:TONE-A 5E15 only
Establishes or releases a connection between a network 1004 Hz tone and a specific digital trunk.	ORD:TONE-B 5E16(1) and later
Releases a trunk that is being held off-hook and out-of-service due to a stop-go signaling error.	RLS:TRUNK 5E15 and later
Requests the removal of a trunk from service and places it in the specified out-of-service (OOS) status.	RMV:TRK-A 5E15 only
Requests the removal of a trunk from service and places it in the specified out-of-service (OOS) status.	RMV:TRK-B 5E16(1) and later
Requests that a trunk, a range of trunks in a trunk group, an entire trunk group, a primary rate interface (PRI) group, all trunks on a digital facility interface (DFI), all trunks on a digital networking unit - synchronous optical network (SONET) (DNU-S) virtual tributary level 1 facility, or all trunks on a peripheral control and timing line and trunk unit (PLTU) be returned to service by deleting the specified out-of-service (OOS) condition.	RST:TRK 5E15 and later
Requests that a RST:TRK request be stopped and the trunk(s) be put back into an appropriate out-of-service status.	STP:RST-TRK-A 5E15 only
Requests that a RST:TRK request be stopped and the trunk(s) be put back into an appropriate out-of-service status.	STP:RST-TRK-B 5E16(1) and later
Requests a report to verify all the members of a multi-line hunt group (MLHG).	VFY:MLHG 5E15 and later

250.1 Trunk Group Controls

Topic/Purpose	**Message ID/ Software Release Range**
Requests that a single service selective trunk reservation (SSTR) control be allowed for a specified trunk group after being inhibited by the INH:SSTR input message or by the INH option of the ASGN:SSTR input message.	ALW:SSTR 5E15 and later
Requests that a single trunk reservation (TR) control be allowed for a specified trunk group.	ALW:TR 5E15 and later
Requests that a service selective trunk reservation (SSTR) control be assigned to a specified trunk group.	ASGN:SSTR 5E15 and later
Requests that a trunk reservation (TR) control be assigned to a specified trunk group.	ASGN:TR-A 5E15 only
Requests that a trunk reservation (TR) control be assigned to a specified trunk group.	ASGN:TR-B 5E16(1) only

Requests that a trunk reservation (TR) control be assigned to a specified trunk group.	ASGN:TR-C 5E16(2) and later
Requests that a single service selective trunk reservation (SSTR) control be cleared on a specified trunk group.	CLR:SSTR 5E15 and later
Requests that any service selective trunk reservation (SSTR) inhibit override that was set as the result of a SET:SSTROVRD input message be cleared and all SSTR per-trunk-group inhibits be restored to their original state.	CLR:SSTROVRD 5E15 and later
Requests that network management (NM) trunk group controls (TGCs) of a given control type be removed.	CLR:TGC 5E15 and later
Requests that a single trunk reservation (TR) control be cleared on a specified trunk group.	CLR:TR 5E15 and later
Requests that the trunk reservation (TR) inhibit override that was set as the result of a SET:TROVRD input message be cleared and all TR per-trunk-group inhibits be restored to their original state.	CLR:TROVRD 5E15 and later
Requests that a single service selective trunk reservation (SSTR) control be inhibited for a specified trunk group.	INH:SSTR 5E15 and later
Requests that a trunk reservation (TR) control be inhibited on a per trunk group basis.	INH:TR 5E15 and later
Requests a list of all service selective trunk reservation (SSTR) controls that are currently assigned, or lists the SSTR controls for a single trunk group.	OP:SSTR 5E15 and later
Requests a list of all trunk group controls (TGCs) applied to a particular trunk group, all TGCs of a particular type, or all TGCs in the office.	OP:TGC 5E15 and later
Requests that the specified communication module (CM) or switching module (SM) trouble locating procedure (TLP) note be printed.	OP:TLPNOTE 5E15 and later
Requests a list of all trunk reservation (TR) controls that are currently assigned, or lists the TR control for a single trunk group.	OP:TR 5E15 and later
Requests that the manual reroute (RR) trunk group control (TGC) for a single trunk group be set.	SET:RR-A 5E15 - 5E16(1)
Requests that the manual reroute (RR) trunk group control (TGC) for a single trunk group be set.	SET:RR-B 5E16(2) and later
Requests that all service selective trunk reservation (SSTR) per-trunk-group inhibits be overridden.	SET:SSTROVRD 5E15 and later
Requests that a skip, cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).	SET:TGC-A 5E15 only
Requests that a skip, cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).	SET:TGC-B 5E16(1) only
Requests that a skip, cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).	SET:TGC-C 5E16(2) and later
Requests that all trunk reservation (TR) per-trunk-group inhibits be overridden.	SET:TROVRD 5E15 and later
Requests that further output from a previously requested network management OP input message be stopped.	STP:NMOP 5E15 and later

251. TRUNK TESTING

Topic/Purpose	**Message ID/ Software Release Range**
Requests that the message transfer part (MTP) route verification test (MRVT) be initiated.	EXC:CCS 5E15 and later
Execute a circuit query (CQ) request.	EXC:CCSCQ 5E15 and later
Inhibits automatic periodic execution of the common channel signaling (CCS) office-wide circuit query.	INH:CCSCQ 5E15 and later
Determines whether the common channel signaling (CCS) automatic circuit query for CCS7 trunks is inhibited or allowed for the entire office, and the circuit query start time.	OP:CCSCQ 5E15 and later
This message will report the out-going supervision state of a trunk (on/off-hook) or set the trunk to on or off-hook.	ORD:TRK-A 5E15 only
This message will report the out-going supervision state of a trunk (on/off-hook) or set the	ORD:TRK-B

trunk to on or off-hook.	5E16(1) and later
Requests that the active circuit query request be stopped.	STP:CCSCQ 5E15 and later
Stops pending or currently running test(s) of a integrated service digital network (ISDN) digital subscriber line (DSL).	STP:TST-DSL 5E15 and later
Requests that a modem pool (MP) test started by the TST:MP input message be stopped.	STP:TST-MP 5E15 and later
Requests that the testing of trunks initiated by the TST:TRK input message be stopped.	STP:TST-TRK 5E15 and later
Requests that the test of continuity of analog lines terminated on the W-card of WNC be stopped.	STP:TST-WLINE 5E15 and later
Requests that an Operator Services Position System (OSPS) local number portability (LNP) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the LNP/network control point (NCP) database to verify its operation.	TST:LNP 5E15 and later
Requests automatic operational or transmission tests on individual trunks, a range of trunks in a trunk group, or an entire trunk group.	TST:TRK-A 5E15 only
Requests automatic operational or transmission tests on individual trunks, a range of trunks in a trunk group, or an entire trunk group.	TST:TRK-B 5E16(1) - 5E19(1)
Requests automatic operational or transmission tests on individual trunks, a range of trunks in a trunk group, or an entire trunk group.	TST:TRK-C 5E20(1) and later
Requests that the continuity of analog lines terminated on the W-card of WNC be tested and printed out.	TST:WLINE 5E15 and later

252. TRUNK UNIT CHANNEL BOARD

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the trunk unit channel board (TUCHBD) be aborted at the specified location.	ABT:TUCHBD 5E15 and later
Requests that a trunk unit channel board (TUCHBD) be diagnosed to determine whether it is in satisfactory working order.	DGN:TUCHBD 5E15 and later
Requests that a trunk unit channel board (TUCHBD) be removed from service.	RMV:TUCHBD 5E15 and later
Conditionally or unconditionally restores a trunk unit channel board (TUCHBD) to the active state.	RST:TUCHBD 5E15 and later
Requests that actions on the trunk unit channel board (TUCHBD) at the specified location be stopped.	STP:TUCHBD 5E15 and later

253. UMBILICAL

Topic/Purpose	Message ID/ Software Release Range
Requests that the user shell accept an input message that it previously rejected because it was not represented in the input message catalog database.	EXC:UCL 5E15 and later
Request output containing the busy/idle status of host umbilical channels.	OP:UMBILMAP 5E15 and later
Requests that a host umbilical (UMBIL) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:UMBIL 5E15 and later
Requests that a host umbilical circuit be restored to service.	RST:UMBIL 5E15 and later
Requests that actions on a host umbilical (UMBIL) circuit be stopped.	STP:UMBIL 5E15 and later
Requests a test (connectivity exercise) of the connection of a host umbilical (UMBIL).	TST:UMBIL 5E15 and later

254. UNIVERSAL CONFERENCE CIRCUIT

Topic/Purpose	Message ID/ Software Release

	Range
Requests that actions on the universal conference (UCONF) circuit board be aborted at the specified location.	ABT:UCONF 5E15 and later
Allows hardware error checks to be performed on the specified universal conference (UCONF) circuit board.	ALW:HDW-UCONF 5E15 and later
Requests that a universal conference (UCONF) circuit board be diagnosed to determine whether it is in satisfactory working order.	DGN:UCONF 5E15 and later
Interactively diagnoses (exercises) the universal conference circuit (UCONF) board.	EX:UCONF 5E15 and later
Inhibits the hardware error checks performed on the specified universal conference (UCONF) circuit board.	INH:HDW-UCONF 5E15 and later
Requests that a universal conference (UCONF) circuit board be removed from service.	RMV:UCONF 5E15 and later
Conditionally or unconditionally restores a universal conference (UCONF) circuit board in a global digital service unit (GDSU) to service.	RST:UCONF 5E15 and later
Requests that actions on the universal conference (UCONF) circuit at the specified location be stopped.	STP:UCONF 5E15 and later

255. UNIVERSAL TONE

255.1 Universal Tone Decoder

Topic/Purpose	Message ID/ Software Release Range
Requests that actions on the universal tone decoder (UTD) be aborted at the specified location.	ABT:UTD 5E15 and later
Allows hardware error checks to be performed on the specified universal tone decoder (UTD).	ALW:HDW-UTD 5E15 and later
Requests that a universal tone decoder (UTD) board be diagnosed to determine if it is in satisfactory working order.	DGN:UTD 5E15 and later
Interactively diagnoses (exercises) the universal tone detector (UTD).	EX:UTD 5E15 and later
Inhibits the hardware error checks performed on the specified universal tone decoder (UTD).	INH:HDW-UTD 5E15 and later
Requests that a universal tone decoder (UTD) board be removed from service.	RMV:UTD 5E15 and later
Conditionally or unconditionally restores a universal tone decoder (UTD) board, in the local digital service unit, to service.	RST:UTD 5E15 and later
Requests that actions on the universal tone decoder (UTD) board at the specified location be stopped.	STP:UTD 5E15 and later

255.2 Universal Tone Generator

Topic/Purpose	Message ID/ Software Release Range
Requests that actions be aborted on the universal tone generator (UTG) at the specified location.	ABT:UTG 5E15 and later
Allows hardware error checks to be performed on the specified universal tone generator (UTG).	ALW:HDW-UTG 5E15 and later
Requests that a universal tone generator (UTG) board be diagnosed to determine if it is in satisfactory working order.	DGN:UTG 5E15 and later
Interactively diagnoses (exercises) the universal tone generator (UTG).	EX:UTG 5E15 and later
Inhibits the hardware error checks performed on the specified universal tone generator (UTG).	INH:HDW-UTG 5E15 and later
Requests that a universal tone generator (UTG) board be removed from service.	RMV:UTG 5E15 and later
Conditionally or unconditionally restores a universal tone generator (UTG) board, in the local	RST:UTG

digital service unit, to service.	5E15 and later
Requests that actions on the universal tone generator (UTG) board at the specified location be stopped.	STP:UTG 5E15 and later

256. UPDATES

Topic/Purpose	Message ID/ Software Release Range
Requests a report about the current status of the active file receiving process.	IN:REMOTE-REPT 5E15 and later
Requests that the administrative module (AM) be put in the remote-file-receive mode.	IN:REMOTE-START 5E15 and later
Requests that the input of update files be terminated from a remote source.	IN:REMOTE-STOP 5E15 and later
Requests that tape header information and, if present, a volume table of contents (VTOC) be read from a load-disk-from-tape (LDFT) formatted tape and output to the ROP.	OP:G-READHDR 5E15 and later
Requests output of the central processor or administrative module (AM) system update event log.	OP:G-READLOG 5E15 and later
Requests an update of the "cluster" attribute in all tuples of the RLRT_MHG and RLRT_TRKG office dependent data (ODD) relations for a particular multi-module remote switching module (MMRSM) site and updates the RLRTANNGRP relation for affected announcement trunk groups associated with the site.	ST:UPDMHGTRKG 5E15 and later
Requests that the administrative module (AM) system-update message in progress be stopped.	STOP:GEN 5E15 and later
Stops current execution of the software update (SU) installation process.	STP:EXC-UPD 5E15 and later
Requests that the administrative module (AM) system-update message in progress be stopped.	STP:GEN 5E15 and later
Requests application of a byte replacement update associated with a software update.	UPD:APPLY-BYTER-A 5E15 only
Requests application of a byte replacement update associated with a software update.	UPD:APPLY-BYTER-B 5E16(1) only
Requests application of a byte replacement update associated with a software update.	UPD:APPLY-BYTER-C 5E16(2) - 5E17(1)
Requests application of a byte replacement update associated with a software update.	UPD:APPLY-BYTER-D 5E18(1) - 5E19(1)
Requests application of a byte replacement update associated with a software update.	UPD:APPLY-BYTER-E 5E20(1) and later
Requests application of a file replacement update associated with a software update.	UPD:APPLY-FILER-A 5E15 only
Requests application of a file replacement update associated with a software update.	UPD:APPLY-FILER-B 5E16(1) only
Requests application of a file replacement update associated with a software update.	UPD:APPLY-FILER-C 5E16(2) - 5E17(1)
Requests application of a file replacement update associated with a software update.	UPD:APPLY-FILER-D 5E18(1) only
Requests application of a file replacement update associated with a software update.	UPD:APPLY-FILER-E 5E19(1) only
Requests application of a file replacement update associated with a software update.	UPD:APPLY-FILER-F 5E20(1) and later
Requests application of a function replacement update associated with a software update.	UPD:APPLY-FUNCR-A 5E15 only
Requests application of a function replacement update associated with a software update.	UPD:APPLY-FUNCR-B 5E16(1) only
Requests application of a function replacement update associated with a software update.	UPD:APPLY-FUNCR-C 5E16(2) - 5E17(1)
Requests application of a function replacement update associated with a software update.	UPD:APPLY-FUNCR-D 5E18(1) - 5E19(1)
Requests application of a function replacement update associated with a software update.	UPD:APPLY-FUNCR-E

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	5E20(1) and later
Requests update to the software update database after the successful execution of the first input message preceding the first UPD:APPLY message in the APPLY section of the MSGS file in a software update (SU).	UPD:APPLY-UNIX-A 5E15 - 5E17(1)
Requests update to the software update database after the successful execution of the first input message preceding the first UPD:APPLY message in the APPLY section of the MSGS file in a software update (SU).	UPD:APPLY-UNIX-B 5E18(1) and later
Requests that the status of software update (SU) process automation be determined and/or changed.	UPD:AUTO 5E15 and later
Resuests that an office health check be performed (UPD:AUTOCHK) or requests that the results of the last office healthcheck be displayed (UPD:AUTOCHK:STATUS).	UPD:AUTOCHK 5E15 and later
Requests that the software update (SU) process automation office profile be changed according to the arguments and values specified in the input message.	UPD:AUTOPROFILE 5E15 and later
Requests that the named software update (SU) be scheduled for automatic installation (UPNM option) or requests the status of the currently scheduled SU (STATUS option).	UPD:AUTOSCHED 5E15 and later
Requests that software updates be backed out.	UPD:BKOUT-A 5E15 - 5E17(1)
Requests that software updates be backed out.	UPD:BKOUT-B 5E18(1) and later
Requests that the administrative module (AM) minimum-configuration or full-configuration boot image be updated.	UPD:BLDBOOT 5E15 and later
Requests that an official software update be blocked or inhibited from being backed out.	UPD:BLOCK-A 5E15 - 5E17(1)
Requests that an official software update be blocked or inhibited from being backed out.	UPD:BLOCK-B 5E18(1) and later
Requests that the last official software update be backed out.	UPD:BOLO 5E15 and later
Used during the common network interface (CNI) to host global switching module (GSM) conversion procedure to copy and initialize integrated services user part (ISUP) trunk member data in the host GSM processor.	UPD:CCS-CUTOVER 5E15 and later
Used during the common network interface (CNI) platform to host global switching module (GSM) platform conversion procedure to update internal integrated services user part (ISUP) trunk group/member and transaction capability application part (TCAP) application relational data for the "psu_mod" attribute.	UPD:CCS-PSUMOD 5E15 and later
Requests that one or more software updates be cleared from the administrative module (AM) field update directory.	UPD:CLR-A 5E15 - 5E17(1)
Requests that one or more software updates be cleared from the administrative module (AM) field update directory.	UPD:CLR-B 5E18(1) and later
Requests that information about administrative module (AM) software updates be displayed.	UPD:DISPLAY-A 5E15 - 5E17(1)
Requests that information about administrative module (AM) software updates be displayed.	UPD:DISPLAY-B 5E18(1) and later
To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.	UPD:DUMPCORE-A 5E15 only
To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.	UPD:DUMPCORE-B 5E16(1) only
To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.	UPD:DUMPCORE-C 5E16(2) - 5E17(1)
To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.	UPD:DUMPCORE-D 5E18(1) - 5E19(1)
To enable switching module (SM) incore memory to be dumped to a file.	UPD:DUMPCORE-E 5E20(1) and later
Requests that the software update expansion process that takes place automatically during the download of a compressed software update (SU) be manually stopped (STOP), or requests that any compressed files in the software update specified (`UPNM=a`) be expanded to their original size so that software update application may begin immediately.	UPD:EXPAND 5E15 and later
Requests that function information from a process file's symbol table be displayed for one to twenty five address or function entries.	UPD:FTRC 5E15 and later

Requests execution of the application process, APPLPROC, (/prc/supr/applproc) during a retrofit or update.	UPD:G-APPLPROC 5E15 and later
Requests that the administrative module (AM) be prepared for booting from the old software release if it is necessary to back out of the new software release.	UPD:G-BACKOUT 5E15 and later
Requests the start of the retrofit cycle.	UPD:G-BEGIN 5E15 and later
Requests commitment to the new switch software release by duplexing the disks and completes the propagation of the new software release into the system after the soak period.	UPD:G-COMMIT 5E15 and later
Requests that the continuation of a central processor or administrative module update process that requested a manual action using a UPD:G-[unit] output message.	UPD:G-CONTINUE 5E15 and later
Requests the completion of the retrofit cycle.	UPD:G-END 5E15 and later
Requests that the new software release data be entered into the administrative module.	UPD:G-ENTER 5E15 and later
Requests that the administrative module (AM) be prepared for booting from the new software release.	UPD:G-PROCEED 5E15 and later
Requests that the old software release be restored by removing the new software release from the administrative module (AM).	UPD:G-RESTORE 5E15 and later
Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 1 to side 0 and perform an SM retrofit initialization during a retrofit or software release update.	UPD:G-SMBKOUT 5E15 and later
Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 0 to side 1 and perform an SM retrofit initialization during a retrofit or update.	UPD:G-SMSWITCH 5E15 and later
Requests a retrofit switch and initialization on switching modules (SMs) that were switched by the UPD:G-SWITCHFWD input message during a retrofit or update.	UPD:G-SWITCHBCK 5E15 and later
Requests a retrofit switch and initialization of switching modules (SMs) that are offline pumped and forced during a retrofit or update.	UPD:G-SWITCHFWD 5E15 and later
Requests the collection and logging of current out-of-service (OOS) trunks and their statuses during a software release transition (retrofit, update, or large terminal growth).	UPD:G-TSM 5E15 and later
To manually control the generation of update files (ufiles) and product files (pfiles) generated by the UPgenpcc process.	UPD:GENP 5E15 and later
To verify the integrity of the disk and core images for hash sum protected products.	UPD:HSCHK-A 5E15 only
To verify the integrity of the disk and core images for hash sum protected products.	UPD:HSCHK-B 5E16(1) only
To verify the integrity of the disk and core images for hash sum protected products.	UPD:HSCHK-C 5E16(2) - 5E17(1)
To verify the integrity of the disk and core images for hash sum protected products.	UPD:HSCHK-D 5E18(1) only
To verify the integrity of the disk and core images for hash sum protected products.	UPD:HSCHK-E 5E19(1) only
To verify the integrity of the disk and core images for hash sum protected products.	UPD:HSCHK-F 5E20(1) and later
Invalidates memory segments for the input message catalog (imcatlg), causing the catalog to be read from disk.	UPD:IMCAT 5E15 and later
Requests that the password, the number of login attempts and/or the key, which are used by the Customer Service Computer Access Network System (CSCANS) interface, be initialized.	UPD:INITPW 5E15 and later
Request that a software update (SU) be installed or backed out.	UPD:INSTL 5E15 and later
Requests updates associated with a temporary software update be made permanent.	UPD:OFC-A 5E15 - 5E17(1)
Requests updates associated with a temporary software update be made permanent.	UPD:OFC-B 5E18(1) and later
Requests that a pending computer field update (that is, one that has been interrupted) be removed from further consideration.	UPD:OMIT 5E15 and later
Requests that program update compact switch processor's patch space.	UPD:PATCH 5E15 and later
Requests that updates associated with a temporary broadcast warning message (BWM) be	UPD:PERM-A

made permanent.	5E15 - 5E17(1)
Requests that updates associated with a temporary broadcast warning message (BWM) be made permanent.	UPD:PERM-B 5E18(1) and later
Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.	UPD:PMPPERF-A 5E15 only
Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.	UPD:PMPPERF-B 5E16(1) only
Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.	UPD:PMPPERF-C 5E16(2) - 5E17(1)
Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.	UPD:PMPPERF-D 5E18(1) - 5E19(1)
Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.	UPD:PMPPERF-E 5E20(1) and later
Requests that execution of an in-progress UPD:PMPPERF input message be stopped.	UPD:PMPSTOP 5E15 and later
Request that an the specified file type of a designated software update (SU) be printed to the ROP.	UPD:PRINT 5E15 and later
Requests that the patch space recovery (PSR) feature be executed.	UPD:PSR 5E16(2) and later
Requests that the temporary software update pump map be used during an initialization of the switching modules (SMs) or communication module processors (CMPs).	UPD:PUMPBWM-A 5E15 - 5E16(1)
Requests that the temporary software update pump map be used during an initialization of the switching modules (SMs) or communication module processors (CMPs).	UPD:PUMPBWM-B 5E16(2) - 5E19(1)
Requests that the temporary software update pump map be used during an initialization of the switching modules (SMs).	UPD:PUMPBWM-C 5E20(1) and later
Requests that the official pump map be used during an initialization of the switching modules (SM), SM-2000, or communication module processors (CMPs).	UPD:PUMPOFC-A 5E15 - 5E16(1)
Requests that the official pump map be used during an initialization of the switching modules (SM), SM-2000, SM-2000 PowerPC\(rg upgrade, or communication module processors (CMPs).	UPD:PUMPOFC-B 5E16(2) - 5E19(1)
Requests that the official pump map be used during an initialization of the switching modules (SM), SM-2000, SM-2000 PowerPC\(rg upgrade.	UPD:PUMPOFC-C 5E20(1) and later
Requests a program update roll backward or roll forward operation.	UPD:RCVRY-A 5E15 only
Requests a program update roll backward or roll forward operation.	UPD:RCVRY-B 5E16(1) only
Requests a program update roll backward or roll forward operation.	UPD:RCVRY-C 5E16(2) - 5E17(1)
Requests a program update roll backward or roll forward operation.	UPD:RCVRY-D 5E18(1) only
Requests a program update roll backward or roll forward operation.	UPD:RCVRY-E 5E19(1) only
Requests a program update roll backward or roll forward operation.	UPD:RCVRY-F 5E20(1) and later
To update the timer value for a given active remote digital test access (RDTA) session and to change the duration period.	UPD:RDTA 5E15 and later
Requests that the software update database be updated to reflect the backing out of any temporary administrative module (AM) updates active at the time of the reboot.	UPD:REBOOT 5E15 and later
Requests a program update roll backward or roll forward operation.	UPD:RECOVERY 5E15 and later
Requests smaller, more concise software update database entries after all updates on the administrative module (AM) have been made official.	UPD:REDUCE 5E15 and later
Requests that the soak timer duration (TM) of the software update (SU) that is currently soaking be updated, or that the soak timer for the SU that is currently soaking be stopped, or that the line number to be executed next for the SU loaded on the Master Control Center (MCC) 1960 page be changed.	UPD:RESET 5E15 and later
Requests that if an operation to an administrative module (AM) field update fails, that update's status may be "reset" to a previously "accepted" state.	UPD:RESET-3B 5E15 and later
Requests the setting of the software update (SU), the SOAK timer and the completed stage	UPD:SET

where the installation execution is to stop.	5E15 and later
Requests that the SOAK timer either have its default time changed, timer restarted, timer report printed or timer canceled.	UPD:SKTMR 5E15 and later
Request that the SU installation process be stopped.	UPD:STOP-INSTL 5E15 and later
This input message should be used in conjunction with easy software update (SU) installation.	UPD:STOP-SOAK 5E15 and later
Requests verification of software update consistency and a summary of any software update inconsistencies that exist in the system.	UPD:UPDCON 5E15 and later
Requests information about updates to the system through software update procedures.	UPD:UPDDSPLY-A 5E15 - 5E17(1)
Requests information about updates to the system through software update procedures.	UPD:UPDDSPLY-B 5E18(1) and later
Requests update of the text version and/or software update level of the file system partitions.	UPD:VERSION-A 5E15 - 5E17(1)
Requests update of the text version and/or software update level of the file system partitions.	UPD:VERSION-B 5E18(1) and later
Requests that software updates which are updates in the field update directory be updated.	UPD:VFY-A 5E15 - 5E17(1)
Requests that software updates which are updates in the field update directory be updated.	UPD:VFY-B 5E18(1) and later
Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.	UPD:VFYCON-A 5E15 only
Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.	UPD:VFYCON-B 5E16(1) only
Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.	UPD:VFYCON-C 5E16(2) - 5E17(1)
Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.	UPD:VFYCON-D 5E18(1) only
Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.	UPD:VFYCON-E 5E19(1) only
Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.	UPD:VFYCON-F 5E20(1) and later

257. USER LEVEL AUTOMATIC RESTART

Topic/Purpose	Message ID/ Software Release Range
Initializes the *UNIX*® level automatic restart process (ULARP).	INIT:ULARP 5E15 and later
Requests the status of run input messages.	OP:ULARP-COM 5E15 and later
Requests a listing of the execution sequence of child processes and run input message during a bootstrap or user initialization procedure.	OP:ULARP-EXEC 5E15 and later
Requests the status of *UNIX*® level automatic restart process (ULARP) child processes.	OP:ULARP-PROC 5E15 and later

258. USER PART

Topic/Purpose	Message ID/ Software Release Range
To request status of the user part specified by the input originating point code (OPC)/destination point code (DPC) pair.	OP:UPART 5E16(1) and later

259. UTILITIES

Topic/Purpose	Message ID/ Software Release Range

Requests that generic utility WHEN breakpoint clauses in the communication module processors (CMP) be allowed or enabled.	ALW:UT-CMP 5E15 and later
Requests that generic utility WHEN clauses in the packet interface unit (PI) be allowed or enabled.	ALW:UT-MCTSI-PI 5E15 and later
Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.	ALW:UT-PSUPH-A 5E15 only
Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.	ALW:UT-PSUPH-B 5E16(1) and later
Requests that generic utility WHEN breakpoint clauses in the switching module (SM) be allowed or enabled.	ALW:UT-SM 5E15 and later
Requests that all currently defined administrative module (AM) generic access package (GRASP) breakpoints be enabled so that the associated actions are executed when the breakpoint conditions occur.	ALW:UTIL 5E15 and later
Requests that a specific administrative module (AM) generic access package (GRASP) breakpoint be enabled so that the associated actions are executed when the breakpoint condition occurs.	ALW:UTILFLAG 5E15 and later
Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the communication module processor (CMP) be removed.	CLR:UT-CMP 5E15 and later
Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet interface (PI) unit be removed.	CLR:UT-MCTSI-PI 5E15 and later
Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.	CLR:UT-PSUPH-A 5E15 only
Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.	CLR:UT-PSUPH-B 5E16(1) and later
Requests that one specific WHEN clause or all WHEN clauses be removed from both the application program and the memory of the switching module (SM).	CLR:UT-SM 5E15 and later
Removes all currently defined administrative module (AM) generic access package (GRASP) breakpoints; clears definitions.	CLR:UTIL 5E15 and later
Removes the specified administrative module (AM) generic access package (GRASP) breakpoint and clears the definition.	CLR:UTILFLAG 5E15 and later
Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the packet interface (PI) unit and optionally perform specific operations.	COPY:UT-MCTSI-PI 5E15 and later
Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.	COPY:UT-PSUPH-A 5E15 only
Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.	COPY:UT-PSUPH-B 5E16(1) - 5E20(1)
Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.	COPY:UT-PSUPH-C 5E21(1) and later
Requests that a value be copied into an address, register, variable, or utility variable of the switching module (SM), and can perform specific operations.	COPY:UT-SM-A 5E15 - 5E16(1)
Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the switching module (SM), and can perform specific operations.	COPY:UT-SM-B 5E16(2) and later
Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.	DUMP:UT-CMP-A 5E15 only
Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.	DUMP:UT-CMP-B 5E16(1) and later
Requests that the contents of one or more sequential memory locations in the specified communication module processor message handler (CMPMSG) be dumped.	DUMP:UT-CMPMSG 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) common controller (CC) be dumped.	DUMP:UT-DNUS 5E15 and later
Requests that the contents of one or more sequential memory location in the specified foundation peripheral controller (FPC) be dumped.	DUMP:UT-FPC 5E15 and later

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Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) be dumped.	DUMP:UT-IDCU 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) loop side interface (LSI) be dumped.	DUMP:UT-IDCULSI 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified integrated services line unit common controller (ISLUCC) be dumped.	DUMP:UT-ISLUCC 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified message handler (MH) unit be dumped.	DUMP:UT-MCTSI-MH 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.	DUMP:UT-MCTSI-PI-A 5E15 only
Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.	DUMP:UT-MCTSI-PI-B 5E16(1) and later
Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.	DUMP:UT-MMP 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified message switch (MSGS) be dumped.	DUMP:UT-MSGS 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified office network and timing complex processor (ONTC) be dumped.	DUMP:UT-ONTC 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.	DUMP:UT-PPC 5E15 and later
Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.	DUMP:UT-PSUPH-A 5E15 only
Format 1 requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.	DUMP:UT-PSUPH-B 5E16(1) - 5E20(1)
Format 1 requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.	DUMP:UT-PSUPH-C 5E21(1) and later
Requests that the contents of one or more sequential memory locations in the specified quad-link packet switch (QLPS) gateway processor (QGP) be dumped.	DUMP:UT-QGP 5E15 and later
Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.	DUMP:UT-SM-A 5E15 only
Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.	DUMP:UT-SM-B 5E16(1) only
Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.	DUMP:UT-SM-C 5E16(2) and later
Requests that Symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.	DUMP:UT-SYMID-A 5E15 only
Requests that symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.	DUMP:UT-SYMID-B 5E16(1) and later
Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) transmission multiplexer (TMUX) be dumped.	DUMP:UT-TMUX 5E15 and later
Requests that the conditional ELSE input message used with the IF input message perform any communications module processor (CMP) generic utility input messages following it, provided the IF input message comparison is not true.	ELSE:UT-CMP 5E15 and later
Requests the conditional ELSE input message; which is used with the IF input message to perform any packet interface (PI) unit generic utility input messages following it, provided the IF input message comparison is not true (refer to the IF:UT-MCTSI-PI input message).	ELSE:UT-MCTSI-PI 5E15 and later
Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true.	ELSE:UT-PSUPH-A 5E15 only
Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true.	ELSE:UT-PSUPH-B 5E16(1) and later
Conditional ELSE input message used with the IF input message will perform any switching module (SM) generic utility input messages following it, provided the IF input message comparison is not true.	ELSE:UT-SM 5E15 and later
Requests that a series of communication module processor (CMP) generic utility input messages be ended.	END:UT-CMP 5E15 and later

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Requests that a series of packet interface unit (PI) generic utility input messages be ended.	END:UT-MCTSI-PI 5E15 and later
Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended (Refer to the input messages listed in the **REFERENCES** section).	END:UT-PSUPH-A 5E15 only
Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended.	END:UT-PSUPH-B 5E16(1) and later
Requests that a series of switching module (SM) generic utility input messages be ended.	END:UT-SM 5E15 and later
Marks the end of a list of administrative module (AM) generic access package (GRASP) messages to be performed when a specified breakpoint condition exists.	END:WHEN 5E15 and later
Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.	EXC:UT-CMP 5E15 and later
Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.	EXC:UT-CMPMSG 5E15 and later
Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S).	EXC:UT-DNUS 5E15 and later
Requests that an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.	EXC:UT-FPC 5E15 and later
Requests that an unconditional call be made to a function using parameters in the specified integrated digital carrier unit (IDCU).	EXC:UT-IDCU 5E15 and later
Requests that an unconditional call be made to a function using parameters in the specified integrated digital carrier unit (IDCU) loop side interface (LSI).	EXC:UT-IDCULSI 5E15 and later
Requests that an unconditional call be made to a function using parameters in the specified integrated services line unit common controller (ISLUCC).	EXC:UT-ISLUCC 5E15 and later
Requests that an unconditional call to a function be executed using parameters in the specified message handler (MH) unit.	EXC:UT-MCTSI-MH-A 5E15 - 5E16(1)
Format 1 requests that an unconditional call to a function using parameters in the specified message handler (MH) unit be executed.	EXC:UT-MCTSI-MH-B 5E16(2) and later
Format 1 requests that an unconditional call to a function using parameters in the specified peripheral interface (PI) unit be executed.	EXC:UT-MCTSI-PI 5E15 and later
Requests that an unconditional call to a function using parameters in the specified module message processor (MMP) be executed.	EXC:UT-MMP 5E15 and later
Requests that an unconditional call to a function using parameters in thespecified message switch (MSGS) be executed.	EXC:UT-MSGS 5E15 and later
Requests that an unconditional call to a function using parameters in the specified office network and timing complex processor (ONTC) be executed.	EXC:UT-ONTC 5E15 and later
Requests that an unconditional call to a function using parameters in the specified pump peripheral controller (PPC) be executed.	EXC:UT-PPC 5E15 and later
Requests the printing of the PSU2E processor debugging information associated with the input shell command string.	EXC:UT-PSUCOM-A 5E18(1) - 5E19(1)
Requests the printing of the PSU2E or IPS processor debugging information associated with the input shell command string.	EXC:UT-PSUCOM-B 5E20(1) and later
Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed.	EXC:UT-PSUPH-A 5E15 only
Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed.	EXC:UT-PSUPH-B 5E16(1) - 5E20(1)
Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed.	EXC:UT-PSUPH-C 5E21(1) and later
Requests that an unconditional call to a function using parameters in the specified quad-link packet switch (QLPS) gateway processor (QGP) be executed.	EXC:UT-QGP 5E15 and later
Format 1 requests that an unconditional call to a function using parameters in the specified switching module (SM) be executed.	EXC:UT-SM-A 5E15 - 5E16(1)
Format 1 requests that an unconditional call to a function using parameters in the specified switching module (SM) be executed.	EXC:UT-SM-B 5E16(2) and later
Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).	EXC:UT-TMUX 5E15 and later
Requests that a constant or variable in a communication module processor's (CMP) memory be compared against another constant or variable in the CMP memory.	IF:UT-CMP 5E15 and later
Signifies the end of an IF-ELSE statement in the communication module processor (CMP)	IF:UT-CMP-ENDIF

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and must be used in combination with the IF:UT-CMP input message.	5E15 and later
Requests the end of an IF-ELSE statement in the packet interface (PI) unit and must be used in combination with the IF:UT-MCTSI-PI input message.	IF:UT-MCTSI-PE 5E15 and later
Requests that a constant or variable in a packet interface (PI) unit memory be compared against another constant or variable in the PI memory.	IF:UT-MCTSI-PI 5E15 and later
Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.	IF:UT-PSUPH-A 5E15 only
Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.	IF:UT-PSUPH-B 5E16(1) - 5E20(1)
Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.	IF:UT-PSUPH-C 5E21(1) and later
Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.	IF:UT-PSUPH-END-A 5E15 only
Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.	IF:UT-PSUPH-END-B 5E16(1) and later
Requests that a constant or variable in a switching module's (SM) memory be compared against another constant or variable in the SM memory.	IF:UT-SM-A 5E15 - 5E16(1)
Requests that a constant or variable in a switching module's (SM) memory be compared against another constant or variable in the SM memory.	IF:UT-SM-B 5E16(2) and later
Requests that the end of an IF-ELSE statement be signified in the switching module (SM) and must be used together with the IF:UT-SM input message.	IF:UT-SM-ENDIF 5E15 and later
Requests that a specific generic utility WHEN clause in the communications module processor (CMP), or all such active clauses, be inhibited.	INH:UT-CMP 5E15 and later
Requests that a specific generic utility WHEN clause in the packet interface (PI) unit, or all such active clauses, be inhibited.	INH:UT-MCTSI-PI 5E15 and later
Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited.	INH:UT-PSUPH-A 5E15 only
Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited.	INH:UT-PSUPH-B 5E16(1) and later
Disables (but leaves defined) all administrative module (AM) generic access package (GRASP) breakpoints.	INH:UTIL 5E15 and later
Disables (but leaves defined) a specific central processor (CP) generic access package (GRASP) breakpoint.	INH:UTILFLAG 5E15 and later
Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP).	LOAD:UT-CMP 5E15 and later
Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP) message handler (CMPMSG).	LOAD:UT-CMPMSG 5E15 and later
Requests that a value(s) be loaded into the memory of the specified digital networking unit - SONET (DNU-S).	LOAD:UT-DNUS 5E15 and later
Requests that a value be loaded into the memory of the specified foundation peripheral controller (FPC).	LOAD:UT-FPC 5E15 and later
Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU).	LOAD:UT-IDCU 5E15 and later
Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU) loop side interface (LSI).	LOAD:UT-IDCULSI 5E15 and later
Requests that a value be loaded into the memory of the specified integrated services line unit common controller (ISLUCC).	LOAD:UT-ISLUCC 5E15 and later
Requests that a value(s) be loaded into the memory of the specified message handler (MH) unit.	LOAD:UT-MCTSI-MH 5E15 and later
Requests that a value be loaded into the memory of the specified peripheral interface (PI) unit.	LOAD:UT-MCTSI-PI 5E15 and later
Requests that a value be loaded into the memory of the specified module message processor (MMP).	LOAD:UT-MMP 5E15 and later
Requests that a value(s) be loaded into the memory of the specified message switch (MSGS).	LOAD:UT-MSGS 5E15 and later
Requests that a value(s) be loaded into the memory of the specified office network and timing complex processor (ONTC).	LOAD:UT-ONTC 5E15 and later
Requests that a value be loaded into the memory of the specified pump peripheral controller (PPC).	LOAD:UT-PPC 5E15 and later

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Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH).	LOAD:UT-PSUPH-A 5E15 only
Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH).	LOAD:UT-PSUPH-B 5E16(1) and later
Requests that a value(s) be loaded into the memory of the specified quad-link packet switch (QLPS) gateway processor (QGP).	LOAD:UT-QGP 5E15 and later
Requests that a value(s) be loaded into the memory of the specified switching module (SM).	LOAD:UT-SM 5E15 and later
Requests that a value(s) be loaded into the memory of the specified time multiplex switch (TMS).	LOAD:UT-TMS 5E15 and later
Requests that a value be loaded into the memory of the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).	LOAD:UT-TMUX 5E15 and later
Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the communications module processor (CMP).	OP:UT-CMP 5E15 and later
Requests a report on the status of one or all of the generic utilities WHEN clauses in the specified packet interface unit (PI).	OP:UT-MCTSI-PI 5E15 and later
Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH).	OP:UT-PSUPH-A 5E15 only
Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH).	OP:UT-PSUPH-B 5E16(1) and later
Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the switching module (SM).	OP:UT-SM 5E15 and later
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-A 5E15 - 5E16(1)
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-B 5E16(2) only
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-C 5E17(1) only
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-D 5E18(1) - 5E19(1)
Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.	TRC:UTIL-E 5E20(1) and later
Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified communications module processor (CMP).	WHEN:UT-CMP 5E15 and later
Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet interface unit (PI).	WHEN:UT-MCTSI-PI 5E15 and later
Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).	WHEN:UT-PSUPH-A 5E15 only
Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).	WHEN:UT-PSUPH-B 5E16(1) - 5E20(1)
Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).	WHEN:UT-PSUPH-C 5E21(1) and later
Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).	WHEN:UT-SM-A 5E15 - 5E16(1)
Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).	WHEN:UT-SM-B 5E16(2) and later

260. UTILITY CALL TRACE

Topic/Purpose	Message ID/ Software Release Range
Request output containing the busy/idle status of T1 facility channels, and how they are populated with circuit switched voice (CSV) and circuit switched data (CSD) (DS0 and/or wideband) calls.	OP:CHANMAP-A 5E15 - 5E16(1)
Request output containing the busy/idle status of T1 facility channels, and how they are	OP:CHANMAP-B

populated with circuit switched voice (CSV) and circuit switched data (CSD) (DS0 and/or wideband) calls.	5E16(2) and later

261. UTILITY VARIABLE

Topic/Purpose	Message ID/ Software Release Range
Requests that data be copied from an administrative module (AM) generic access package (GRASP) in utility variable to virtual addresses in main memory and in registers as an action associated with a breakpoint.	COPY:UVAR 5E15 and later
Dumps the contents of one or more administrative module (AM) generic access package (GRASP) utility variables either as an immediate message or as an action associated with a breakpoint.	DUMP:UVAR 5E15 and later
Loads administrative module (AM) generic access package (GRASP) utility variable with specified data as an immediate operation or as an action associated with a breakpoint.	LOAD:UVAR 5E15 and later

262. VIRTUAL INPUT/OUTPUT PROCESSOR

Topic/Purpose	Message ID/ Software Release Range
Requests that the specified virtual input/output processor (VIOP) and any associated peripheral controllers (PCs) be removed from service.	RMV:VIOP 5E16(2) and later
Requests that an virtual input/output processor (VIOP) be restored to service.	RST:VIOP 5E16(2) and later

263. VIRTUAL NETWORK CONFERENCE RESOURCE

Topic/Purpose	Message ID/ Software Release Range
Requests that a virtual network conference resource (VNCR) be removed from service.	RMV:VNCR 5E15 and later
Conditionally or unconditionally restores a virtual network conference resource (VNCR) on a call feature server (CFS).	RST:VNCR 5E15 and later

264. VIRTUAL TELETYPEWRITER

Topic/Purpose	Message ID/ Software Release Range
Requests that the specified virtual teletypewriter (VTTY) be removed from service.	RMV:VTTY 5E16(2) and later
Requests that the specified virtual teletypewriter controller (VTTYC) and any associated virtual teletypewriters be removed from service.	RMV:VTTYC 5E16(2) and later
Unconditionally restores the specified virtual teletypewriter (VTTY) to service.	RST:VTTY 5E16(2) and later
Conditionally or unconditionally restores a virtual teletypewriter controller (VTTYC) to service.	RST:VTTYC 5E16(2) and later

265. VIRTUAL TRIBUTARY

Topic/Purpose	Message ID/ Software Release Range
Requests that the currently executing maintenance action on a virtual tributary - level 1.5 (VT15) be aborted.	ABT:VT15 5E16(1) and later
Requests that a virtual tributary - level 1.5 (VT15) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.	RMV:VT15 5E16(1) and later
Requests that a virtual tributary - level 1.5 (VT15) be restored to service.	RST:VT15

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	5E16(1) and later
Requests that the currently executing maintenance action on a virtual tributary - level 1.5 (VT15) be stopped.	STP:VT15 5E16(1) and later

TOPICAL INDEX

Software Release: 5E15 and later

1. ACCESS INTERFACE UNIT

ABT:AIUCOM
ABT:AIULC
ABT:AIULP
ABT:AIUPIDB
ABT:AIURG
ALW:HDW-AIU
DGN:AIUCOM
DGN:AIULC
DGN:AIULP
DGN:AIURG
DGN:AIUTSGRP
INH:HDW-AIU
RMV:AIUCOM
RMV:AIULC
RMV:AIULP
RMV:AIUPIDB
RMV:AIURG
RST:AIUCOM
RST:AIULC
RST:AIULP
RST:AIUPIDB
RST:AIURG
STP:AIUCOM
STP:AIULC
STP:AIULP
STP:AIUPIDB
STP:AIURG
STP:SW
SW:AIUCOM

2. ADMINISTRATIVE MODULE

ALW:ERRCHK
ALW:ERRINT
ALW:ERRSRC
EXC:OFLBOOT
INH:ERRCHK
INH:ERRINT
INH:ERRSRC
OP:CFGSTAT-AM-A
OP:CFGSTAT-AM-B
OP:UNAV
OP:UNEQIP
STOP:OFLBOOT

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SW:OFLBOOT

3. ADMINISTRATIVE SERVICES MODULE

SW:ASM

4. ADVANCED SERVICES PLATFORM

CLR:ASPTQ
OP:ACT
OP:ASPTQ
OP:GROW
OP:INIT
OP:OFL
OP:STBY
SET:ASPTQ-A
SET:ASPTQ-B
SET:ASPTQ-C
TST:ASP
TST:ASPTQ
VFY:FILE-A
VFY:FILE-B

5. AIR EXTENSION

OP:WCPE
UPD:SSD

6. ALARMS

ALW:ALM-A
ALW:ALM-B
CHG:ALM
CLR:ALARMS
CLR:OP-ALM-ALL
CLR:UPART
INH:ALM
OP:ALM
OP:ATMALM-A
OP:ATMALM-B
OP:ATMALM-C
OP:ATMALM-D
SET:ALMMDE
STP:OP-ALM-ALL
TST:ALM

6.1 Fan Alarm Scan Points

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CLR:FANALM
CLR:FANALM-3B
CLR:LAMPS

6.2 Alarm and Status Circuit

ABT:ASC
DGN:ASC
EX:ASC
RMV:ASC
RST:ASC
STP:ASC

7. ALTERNATE ROUTE CANCELLATION CONTROL

CLR:ARC
OP:ARC
SET:ARC

8. APPLICATION PROCESSES

INIT:AM-FPI
INIT:AM-SPP
ORD:CPI

9. ASYNCHRONOUS TRANSFER MODE

OP:ST-ATMPVC
UPD:DSPKGDEPEND

9.1 Asynchronous Transfer Mode Packet Pipe Link

CLR:PSALNK
OP:CONV-PSALNK
OP:ST-PSALNK
SET:PSALNK
SW:PSALNK

10. AUDIT PROGRAMS

ALW:AUD
ALW:AUD-CMP
ALW:AUD-ENV
ALW:AUD-SODD
AUD:0

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AUD:CNC
AUD:ECD
AUD:ECDOWN
AUD:FILES
AUD:FMGR
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:LKBDST
AUD:MMGR
AUD:MSGBUF
AUD:NIDATA
AUD:NMDATA
AUD:NODEST
AUD:PMS
AUD:PROAD
CFR:DUPLEXDISKS
CLR:AUD
CLR:BACKOUT
EXC:AUD-SODD
EXC:REMACS
EXC:RG1AUD
INH:AUD
INH:AUD-ENV
INH:AUD-SM
INH:AUD-SODD
OP:AUD
OP:AUD-ERRLOG
OP:AUD-SODD
OP:AUDERR
OP:RG1AUD
OP:ST-AUD-CMP-A
OP:ST-AUD-CMP-B
OP:ST-AUD-ENV-A
OP:ST-AUD-ENV-B
OP:ST-AUD-SM-A
OP:ST-AUD-SM-B
OP:ST-AUD-SODD
OP:ST-ENV-AUD
SCHED:AUD-SODD
SET:AUD
STOP:AUD
STOP:RG1AUD
STP:AUD
STP:AUD-CMP
STP:AUD-ENV
STP:AUD-SM
STP:AUD-SODD

11. AUTHORITY MANAGEMENT

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ADD:PAUTH
ADD:PCGRP
ADD:PROFL
ADD:TAUTH
ADD:TCGRP
CHG:PAUTH
CHG:PROFL
CHG:PSSWD
DEL:PAUTH
DEL:PCGRP
DEL:PROFL
DEL:TAUTH
DEL:TCGRP
VFY:AUTH
VFY:PAUTH
VFY:PCGRP
VFY:PROFL
VFY:TAUTH
VFY:TCGRP

12. AUTOMATIC BACKUP

ALW:AUTOBKUP
CLR:BKUP
INH:AUTOBKUP
SCHED:BKUP
SET:BKUP
STP:AUTOBKUP

13. AUTOMATIC CALL GAPPING CONTROL

OP:ACG

14. AUTOMATIC CUSTOMER STATION REARRANGEMENT

ALW:ACSR
DEL:ACSR
DUMP:ACSR
INH:ACSR
OP:ACSR
OP:STAT

15. AUTOMATIC LINE EVALUATION

ALW:ALE-A
ALW:ALE-B
EXC:ALE-A
EXC:ALE-B

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EXC:SCHED
INH:ALE-A
INH:ALE-B
OP:ALE-A
OP:ALE-B
STP:ALE

16. AUTOMATIC LINE INSULATION TEST

ABT:ALIT
DGN:ALIT
EX:ALIT
RMV:ALIT
RST:ALIT
STP:ALIT

17. AUTOMATIC MAINTENANCE LIMIT

OP:AML

18. AUTOMATIC MESSAGE ACCOUNTING

ABT:AMATAPE
ALW:AMA-AUTOST
ALW:AMA-SESSION
ALW:AMAIRR
ALW:AMALOST
ALW:AMATRC
ALW:CAMAONI
CLR:AMA-MAPS
CNVT:AMA-CONFIG
CPY:AMATAPE
INH:AMA-AUTOST
INH:AMA-SESSION
INH:AMAIRR
INH:AMALOST
INH:AMATRC
INH:CAMAONI
OP:AMA
OP:AMA-CONFIG
OP:AMA-CONTROLF
OP:AMA-DISK
OP:AMA-MAINT
OP:AMA-MAPS
OP:AMA-SEQ
OP:AMA-SESSION
OP:AMA-STATUS
OP:AMA-SUMMARY
OP:AMA-TELE

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OP:AMAIRR
OP:AMALOST
OP:AMATRC
SET:AMA-CONFIG
SET:AMA-CONTROL
SET:AMA-STREAM
STP:AMATAPE
VFY:AMATAPE
WRT:AMADATA

19. AUTOMATIC PROGRESSION TESTING

OP:APT
SCHED:APT
STP:APT

20. AUTOMATIC PROTECTION SWITCH

CLR:PSALNK
OP:APSSTAT
SET:PSALNK

21. AUTOMATIC TRUNK TEST SCHEDULER

DUMP:ATDTA-A
DUMP:ATDTA-B
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
OP:GENBKUP-LAST
RCV:M-GENBKUP
ST:ATTS
STP:ATTS

22. *AUTOPLEX®*

OP:AFAC
TST:BNS
TST:CCRD

23. BACKHAUL

OP:BHA
STP:BHA

24. BACKUP

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OP:BKUP

25. BEARER INDEPENDENT CALL CONTROL

ALW:BICCCQ-A
ALW:BICCCQ-B
CLR:BICCBMOVE
EXC:BICCBMOVE
EXC:BICCCQ
INH:BICCCQ
OP:BICC
OP:BICCBLK
OP:BICCBMOVE
OP:BICCCQ
RMV:BICCCADN
RST:BICCCADN
SND:BICCMSG
STP:BICC
STP:BICCBMOVE
STP:BICCCQ

26. BILLING

STP:BCI

27. BOOT DISK

OP:ABD

28. BOOTSTRAP

ABT:BTSR
DGN:BTSR
EX:BTSR
RMV:BTSR
RST:BTSR
STP:BTSR
TST:BTSR

29. BREAKPOINTS

ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
INH:UTIL

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INH:UTILFLAG
OP:UTIL

30. BREVITY CONTROL

ALW:BCI
ALW:BREVC
CHG:MSGCNTL
CLR:MGDSC
INH:BREVC
OP:BREVC
OP:MGDSC

31. BROADCAST WARNING MESSAGE

CLR:ACKDB
OP:VERSION
UPD:BLOCK-A
UPD:BLOCK-B
UPD:VERSION-A
UPD:VERSION-B

31.1 Program Update Page

CLR:PUPAGE
SET:PUPAGE

32. BUSINESS AND RESIDENCE CUSTOM SERVICES

EXC:BRCS
OP:BRCS-STATUS
STP:BRCS

33. CALL

OP:BCI

33.1 Call Monitor

ALW:CALLMON
CLR:CALLMON
INH:CALLMON
OP:CALLMON
RTR:CALLMON
SET:CALLMON

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33.2 Call Trace

ALW:TRACE
INH:TRACE
OP:TRACE
OP:TRC
SET:TRACE
TRC:CLID
TRC:IPCT
TRC:UTIL-A
TRC:UTIL-B
TRC:UTIL-C
TRC:UTIL-D
TRC:UTIL-E
TST:LINE-ELS

33.3 Reorder

ALW:REORD-SM
INH:REORD

33.4 Switch Cutoff

ALW:SCORPT
INH:SCORPT

33.5 Transient Calls Lost

ALW:TCLRPT
INH:TCLRPT

34. CAMPED-ON UNITS

OP:CAMPON-A
OP:CAMPON-B
STP:CAMPON-A
STP:CAMPON-B

35. CARRIER GROUP ALARM

CLR:CGAP
OP:CGA-A
OP:CGA-B
OP:CGA-C
OP:CGAP
SET:CGAP

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36. CENTRALIZED TRUNK TESTING UNIT

CLR:PB
OP:PB
SET:PB

37. CHECKSUM

OP:ST-SUM

38. CLOCKS

OP:CLK
SET:CLK
SET:CLK-5

39. COMMAND HISTORY

ALW:HIST
CLR:HIST
EXC:PREV
INH:HIST

40. COMMON CHANNEL SIGNALING

ALW:CCS-PSLT
ALW:CCSCQ
TST:GSMNET

41. COMMON LINK NORMALIZATION

ALW:CLNORM
INH:CLNORM
INIT:CLNORM

42. COMMON NETWORK INTERFACE

ALW:RUTIL
ALW:RUTILFLAG
CFR:RING
CHG:GEN
CHG:SRVT
CLR:MINMODE-CNI
CLR:RUTIL
CLR:RUTILFLAG

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DGN:LN
DUMP:RUTIL
EX:LN
EXC:REMACS
EXC:SRVT
FRMV:LN
INH:REPORT
INH:RMV
INH:RUTIL
INH:RUTILFLAG
INIT:CNI
INIT:LN
LNUPD:LN
LOAD:RUTIL
OP:DATALINK
OP:LNSTAT
OP:LNUPD
OP:RING
OP:RUTIL
OP:RUTILFLAG
RCV:M-CNIDBOC
RCV:M-CNIGROWTH
RMV:LN
RST:LN
STOP:LNUPD
STP:PERF
SW:CLOCK
WHEN:RUTIL

42.1 Ring Peripheral Controller Node

DGN:RPCN
EX:RPCN
RMV:RPCN
RST:RPCN

43. COMMON OBJECT FILE FORMAT

DUMP:UT-SYMID-A
DUMP:UT-SYMID-B

44. COMMUNICATIONS MODULE

ALW:HDW-CM
CLR:ISOL-CM
INH:HDW-CM
INIT:CM
OP:CFGSTAT-CM-A
OP:CFGSTAT-CM-B

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OP:OFFNORM-CM
SET:ISOL-CM

45. COMMUNICATION MODULE PROCESSOR

ABT:CMP
ALW:AUD-CMP
ALW:HDW-CMP
ALW:UT-CMP
AUD:CMP
CLR:UT-CMP
COPY:UT-CMP
DGN:CMP
DUMP:UT-CMP-A
DUMP:UT-CMP-B
DUMP:UT-CMPMSG
ELSE:UT-CMP
END:UT-CMP
EX:CMP
EXC:UT-CMP
EXC:UT-CMPMSG
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:AUD-CMP
INH:HDW-CMP
INH:UT-CMP
INIT:CMP
INIT:CMP-SPP
LOAD:UT-CMP
LOAD:UT-CMPMSG
OP:POSTMORT-CMP
OP:ST-AUD-CMP-A
OP:ST-AUD-CMP-B
OP:UT-CMP
RMV:CMP
RST:CMP
ST:OPUMP-CMP
STP:AUD-CMP
STP:CMP
STP:SW
SW:CMP
WHEN:UT-CMP

46. COMMUNICATIONS LINK

ABT:CLNK
ALW:HDW-CLNK
INH:HDW-CLNK
RMV:CLNK
RST:CLNK

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46.1 Communications Link Digital Facility Interface

ABT:CDFI
ALW:HDW-CDFI
DGN:CDFI
EX:CDFI
RMV:CDFI
RST:CDFI
STP:CDFI

47. CONTROL DATA INTERFACE

ABT:CDI
DGN:CDI
EX:CDI
RMV:CDI
RST:CDI
STP:CDI
OP:TRC

48. CONTROL UNIT

AUD:CUMEM
AUD:CUSTAT
DGN:CU
EX:CU
RMV:CU
RST:CU
SW:CU

49. COPYING

COPY:ACTDISK
COPY:ADDR
COPY:BKDISK-A
COPY:BKDISK-B
COPY:DIFF-SRC-MHD
COPY:ECD-TAPE
COPY:FSYS-CFILE
COPY:FSYS-FILE
COPY:ODD-TAPE
COPY:OOSDISK
COPY:PID
COPY:PTN-ALL
COPY:REG
COPY:SPDISK
COPY:TAPE-DATA

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COPY:TAPE-EMERDMP
COPY:TAPE-IN
COPY:TAPE-OUT
COPY:TAPE-TEST
COPY:TAPE-TOP
COPY:UID
COPY:UT-MCTSI-PI
COPY:UVAR
STOP:COPY-DIFF
STP:COPY-DIFF

50. CUSTOMER

50.1 Customer Account Services

TST:CAS
TST:CAS7

50.2 Customer Premise Equipment

OP:CPE
RMV:CPE
RST:CPE
TST:WSCPE

51. CUSTOMER ORIGINATED TRACE

OP:COT-STATUS
SET:COT

52. CUSTOMER SERVICE COMPUTER ACCESS NETWORK SYSTEM

UPD:CSCANS-REPT
UPD:CSCANS-STOP

53. CUTOVER AND CUTBACK

EXC:CO

54. DEBUGGING

ALW:DEBUG
INH:DEBUG
OP:DEBUG

55. DEFAULT CELL GROUP

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ALW:DCGRPT
STP:DCGRPT

56. DEFENSE SWITCH NETWORK

CLR:DSNM5
INIT:DSNPAGE
OP:DSNM5
SET:DSNM5

57. DESTINATION CODE CANCELLATION

CLR:DCC
OP:DCC
SET:DCC

58. DIAGNOSTIC TESTS

EX:LDPARM
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
OP:TAG
STP:DGN

59. DIGITAL AUDIO TAPE

COPY:BKTAPE
DUMP:BKTAPE-A
DUMP:BKTAPE-B

60. DIGITAL CELLULAR SWITCH

CLR:MELNK

61. DIGITAL FACILITY INTERFACE

ABT:DFI
ALW:HDW-DFI
DGN:DFI
EX:DFI
INIT:SC
RMV:DFI
RST:DFI

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STP:DFI

61.1 Communications Link Digital Facilities Interface

ABT:CDFI
ALW:HDW-CDFI
DGN:CDFI
EX:CDFI
RMV:CDFI
RST:CDFI
STP:CDFI

61.2 Digital Facility Interface Circuit Pair

ABT:DFIH
ALW:HDW-DFIH
DGN:DFIH
EX:DFIH
INH:HDW-DFIH
RMV:DFIH
RST:DFIH
STP:DFIH

62. DIGITAL NETWORK UNIT - SONET

ABT:DNUSCC
ABT:DNUSCD
ABT:RMV-RT
ABT:RST-RT
ALW:HDW-DNUSCC
ALW:HDW-DNUSCD
DGN:DNUSCC
DGN:DNUSCD
DUMP:UT-DNUS
EXC:UT-DNUS
INH:HDW-DNUSCC
INH:HDW-DNUSCD
LOAD:UT-DNUS
RMV:DNUSCC
RMV:DNUSCD
RMV:DNUSEOC
RMV:DNUSTMC
RMV:EC1STE
RMV:RTFAC
RST:DNUSCC
RST:DNUSCD
RST:DNUSEOC
RST:DNUSTMC
RST:EC1STE

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RST:RTFAC
RST:RTFAC
STP:DNUSCC
STP:DNUSCD
STP:DNUSEOC
STP:DNUSTMC
STP:EC1STE
STP:RMV-RT
STP:RST-RT
STP:RTFAC
SW:DNUSCC
SW:DNUSCD
SW:DNUSEOC
SW:DNUSTMC

62.1 Synchronous Transport Signal Electrical Interface Facility Interface

ABT:SFI
ALW:HDW-SFI
DGN:SFI
INH:HDW-SFI
RMV:SFI
RST:SFI
STP:SFI
SW:SFI

62.2 Synchronous Transport Signal Facility

OP:PTRC-STSFAC
RMV:STSFAC
RST:STSFAC
STP:STSFAC

62.3 Transmission Multiplexer

ABT:TMUX
ALW:HDW-TMUX
DGN:TMUX
DUMP:UT-TMUX
EXC:UT-TMUX
INH:HDW-TMUX
LOAD:UT-TMUX
RMV:TMUX
RST:TMUX
STP:TMUX

62.4 Virtual Tributary Level 1 Facility

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RMV:VT1FAC
RST:VT1FAC
STP:VT1FAC

63. DIGITAL SERVICE CIRCUIT

DGN:DSC
INH:HDW-DFI
RMV:DSC
RST:DSC

64. DIGITAL SIGNAL LEVEL 1

ABT:DS1
ABT:DS1SFAC
RMV:DS1
RMV:DS1SFAC
RST:DS1
RST:DS1SFAC
STP:DS1
STP:DS1SFAC

65. DIRECT LINK NODE

ALW:DLNHB
INH:DLNHB
INIT:DLN
INIT:DLN-SPP-PID
SW:DLN

66. DIRECT SIGNALING

CLR:DSE
EXC:DSTT
SET:DSE

67. DIRECT USER INTERFACE

DGN:DUIC
EX:DUIC
RMV:DUI
RMV:DUIC
RST:DUI
RST:DUIC

68. DIRECTLY CONNECTED OFFICE

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OP:DCOFC

69. DIRECTLY COUPLED TEST UNIT

69.1 Directly Coupled Test Unit Common Board

ABT:DCTUCOM
DGN:DCTUCOM
EX:DCTUCOM
RMV:DCTUCOM
RST:DCTUCOM
STP:DCTUCOM

69.2 Directly Coupled Test Unit Port Circuit

ABT:DCTUPORT
DGN:DCTUPORT
EX:DCTUPORT
RMV:DCTUPORT
RST:DCTUPORT
STP:DCTUPORT

69.3 Equipment Access Network

ABT:EAN
DGN:EAN
EX:EAN
RMV:EAN
RST:EAN
STP:EAN

69.4 Precision Measurement Unit

ABT:PMU
DGN:PMU
EX:PMU
RMV:PMU
RST:PMU
STP:PMU

70. DISK FILE CONTROLLER

DGN:DFC
EX:DFC
OP:DFC-INFO-A
OP:DFC-INFO-B

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OP:DFCELOG
RMV:DFC
RST:DFC
UPD:FLASH-DFC

71. DISTRIBUTE POINT BOARD

ABT:DIST
DGN:DIST
EX:DIST
RMV:DIST
RST:DIST
STP:DIST

72. DISTRIBUTING FRAME TEST ACCESS CIRCUIT

ABT:DFTAC
DGN:DFTAC
EX:DFTAC
INH:HDW-DFTAC
RMV:DFTAC
RST:DFTAC
STP:DFTAC

73. DIVISION OF REVENUE HOURLY REPORT

ALW:DRHR
INH:DRHR
OP:MEASTAT-A
OP:MEASTAT-B
OP:MEASTAT-MEM

74. DMERT APPLICATION PROCESS

ALW:AUD-ENV
AUD:ENV
INH:AUD-ENV
OP:ST-AUD-ENV-A
OP:ST-AUD-ENV-B
OP:ST-AUD-SM-A
OP:ST-AUD-SM-B
STP:AUD-ENV

75. DUAL LINK INTERFACE

ABT:DLI
DGN:DLI

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EX:DLI
RMV:DLI
RST:DLI
STP:DLI

76. DUAL SERIAL CHANNEL/COMPUTER INTERCONNECT

DGN:DCI
EX:DCI
RMV:DCI
RST:DCI
STOP:DCI

77. DUMP

DGN:MHD
DUMP:ADDR
DUMP:CACHE
DUMP:F-ALL
DUMP:F-FORMAT
DUMP:F-PARTL
DUMP:KERN
DUMP:MHD-BLOCK
DUMP:MHD-DEFECT
DUMP:MHD-VTOC
DUMP:PID
DUMP:PMEM
DUMP:REG
DUMP:SMEAS
DUMP:UID
DUMP:UT-IDCU
DUMP:UT-IDCULSI
DUMP:UVAR

78. DYNAMIC OVERLOAD CONTROLS

ALW:DOC
ASGN:DOC-A
ASGN:DOC-B
ASGN:DOC-C
CLR:DOC
INH:DOC

78.1 Dynamic Overload Controls and Selective Incoming Load Control

ALW:DSILC
INH:DSILC

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79. EMBEDDED OPERATIONS CHANNEL

OP:RT-CHAN
RMV:DNUSEOC
RMV:IDCUEOC
RMV:RT-EOC
RST:DNUSEOC
RST:IDCUEOC
RST:RT-EOC
STP:DNUSEOC
STP:IDCUEOC
SW:DNUSEOC
SW:IDCUEOC
SW:RT-EOC

80. EMERGENCY ACTION INTERFACE

ALW:EAIINT
INH:EAIINT

81. EMERGENCY DUMP

CLR:EMERDMP
OP:EMERSTAT

82. ENHANCED 911

CLR:ESA
OP:ESA
SET:ESA
TST:E911

83. EXECUTIVE CELLULAR PROCESSOR

ALW:HBPRT
INH:HBPRT
OP:HBPRT

84. EQUIPMENT CONFIGURATION DATA

ALW:ECDAUD
AUD:ECD
CMPR:DISK-CORE
EXC:ECDAUD
INH:ECDAUD
OP:ECDAUD

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OP:OUTCLS
OP:SCHD
SCHED:ECDAUD
STOP:ECDAUD

85. ERROR SOURCES

ALW:ERRCHK
ALW:ERRINT
ALW:ERRSRC

86. ESSENTIAL SERVICE PROTECTION

ALW:ESP
INH:ESP

87. EXTERNAL SANITY MONITOR

CLR:ESM

88. FACILITY PERFORMANCE MONITORING ALERT

INH:FAC-A
INH:FAC-B
INH:FAC-C

89. FAULT ANALYSIS

RCV:M-FATLP

90. FEATURE ACTIVATION COUNTING AND RECONCILIATION

ALW:EON5REPT
ALW:ESQREPT
DEL:FACR
EXC:FACR
INH:EON5REPT
INH:ESQREPT
INIT:FACR-A
INIT:FACR-B
OP:FACR
SCHED:FACR
STP:FACR

91. FILES

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AUD:FILES
IN:F-APND
IN:F-DEL
IN:F-REPL
OP:FNAME

92. FILE SYSTEMS

ALW:FSYS-ACCESS
ALW:FSYS-MOUNT
ALW:FSYS-OWNER
CLR:FSYS-DIR
CLR:FSYS-FILE
COPY:FSYS-CFILE
COPY:FSYS-FILE
IN:FSYS-DIR
INH:FSYS-UMOUNT
OP:ST-DISKUSE
OP:ST-FILESYS
OP:ST-FREEDISK
OP:ST-LISTDIR
OP:ST-SUM
REPT:SPACE

93. FIVE MINUTE SURVEILLANCE

CLR:M5-A
CLR:M5-B
OP:M5-A
OP:M5-B
OP:M5PKG
SET:M5-A
SET:M5-B

94. FLASH MEMORY

OP:FMCON
OP:FMVER

95. FORCED CONFIGURATION

CLR:FRC-MSCU
CLR:FRC-ONTCCOM
CLR:FRC-TRCU3
SET:FRC-MSCU
SET:FRC-ONTCCOM
SET:FRC-TRCU3

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96. FOUNDATION PERIPHERAL CONTROLLER

ABT:FPC
ALW:HDW-FPC
DGN:FPC
DUMP:UT-FPC
EX:FPC
EXC:UT-FPC
INH:HDW-FPC
LOAD:UT-FPC
RMV:FPC
RST:FPC
STP:FPC
SW:FPC

97. GATED DIODE CROSSPOINT

97.1 Gated Diode Crosspoint Access

ABT:GDXACC
ALW:HDW-GDXACC
DGN:GDXACC
EX:GDXACC
INH:HDW-GDXACC
RMV:GDXACC
RST:GDXACC
STP:GDXACC

97.2 Gated Diode Crosspoint Compensator

ABT:GDXC
DGN:GDXC
EX:GDXC
INH:HDW-GDXC
RMV:GDXC
RST:GDXC
STP:GDXC

97.3 Gated Diode Crosspoint Control

ABT:GDXCON
ALW:HDW-GDXCON
DGN:GDXCON
EX:GDXCON
INH:HDW-GDXCON
RMV:GDXCON
RST:GDXCON

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STP:GDXCON
SW:GDXCON

97.4 Gated Diode Crosspoint Grid

ABT:GRID
ALW:HDW-GRID
DGN:GRID
EX:GRID
INH:HDW-GRID
INH:HDW-GRIDBD
RMV:GRID
RST:GRID
STP:GRID
TST:GRID

98. GENERIC ACCESS PROGRAM

ALW:UMEM
CLR:UMEM
COPY:PID
COPY:UID
DUMP:PID
DUMP:UID
IN:DTIME
INH:UMEM
INIT:UC
INIT:UMEM
OP:UMEM
WHEN:COND
WHEN:PID
WHEN:UID

99. GLOBAL DIGITAL SERVICES FUNCTION

ABT:GDSF
ALW:HDW-GDSF
DGN:GDSF
EX:GDSF
INH:HDW-GDSF
RMV:GDSF
RST:GDSF
STP:GDSF

100. GLOBAL DIGITAL SERVICE UNIT COMMON BOARD

ABT:GDSUCOM
ALW:HDW-GDSUCOM

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DGN:GDSUCOM
EX:GDSUCOM
INH:HDW-GDSUCOM
RMV:GDSUCOM
RST:GDSUCOM
STP:GDSUCOM

101. GLOBAL SWITCHING MODULE

INIT:SCCP
OP:CCS-ACDPC
OP:CCS-ACTLK
OP:CCS-CLS
OP:CCS-DPCLS
OP:CCS-GSM
OP:CCS-LSCLS
OP:CCS-MON
OP:CCS-SCMG
OP:CCS-SLS
OP:GSME
OP:ST-CCSLK
OP:ST-GQPHLNK
OP:ST-GQPHPIPE
OP:ST-GSMNET
OP:ST-MD
OP:ST-NGSMNET
RMV:CCSLK-A
RMV:CCSLK-B
RMV:MD
RST:CCSLK
RST:MD
TST:CCSLK
TST:GSMNET

102. GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS

TST:MAPTQ-A
TST:MAPTQ-B

103. HARD-TO-REACH

CLR:MHTR
OP:HTR

104. HARDWARE CHECKS

ALW:HDW-CDI
ALW:HDW-CLNK

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ALW:HDW-CM
ALW:HDW-DCLU
ALW:HDW-DCTUCOM
ALW:HDW-DFI
ALW:HDW-DFIH
ALW:HDW-DNUSCC
ALW:HDW-DNUSCD
ALW:HDW-FPC
ALW:HDW-GDSF
ALW:HDW-GDSUCOM
ALW:HDW-GDXACC
ALW:HDW-GDXCON
ALW:HDW-GRID
ALW:HDW-GRIDBD
ALW:HDW-HDFI
ALW:HDW-IDCU
ALW:HDW-IFAC
ALW:HDW-ISLU
ALW:HDW-ISLUHLSC
ALW:HDW-ISLUMAN
ALW:HDW-ISLURG
ALW:HDW-ISTF
ALW:HDW-LDSF
ALW:HDW-LDSU
ALW:HDW-LDSUCOM
ALW:HDW-LUCHAN
ALW:HDW-LUCOMC
ALW:HDW-LUHLSC
ALW:HDW-MCTSI-A
ALW:HDW-MCTSI-B
ALW:HDW-MMP
ALW:HDW-MSCU
ALW:HDW-MSUCOM
ALW:HDW-NCREF
ALW:HDW-OFI
ALW:HDW-ONTC
ALW:HDW-PLTLK
ALW:HDW-PPC
ALW:HDW-QGP
ALW:HDW-RAF
ALW:HDW-RCL
ALW:HDW-RCLK
ALW:HDW-RCOSC
ALW:HDW-RCOXC
ALW:HDW-RCREF
ALW:HDW-RCXC
ALW:HDW-RDFI
ALW:HDW-RLI
ALW:HDW-RRCLK
ALW:HDW-RVPT
ALW:HDW-SAS
ALW:HDW-SDFI

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ALW:HDW-SFI
ALW:HDW-SM
ALW:HDW-TAC
ALW:HDW-TEN
ALW:HDW-TMUX
ALW:HDW-TTFCOM
ALW:HDW-UCONF
ALW:HDW-UTD
ALW:HDW-UTG
ALW:HDWCHK
ALW:HWGRD
INH:HDW-CDFI
INH:HDW-CDI
INH:HDW-CM
INH:HDW-DCLU
INH:HDW-DCTUCOM
INH:HDW-DFI
INH:HDW-DFIH
INH:HDW-DFTAC
INH:HDW-DNUSCC
INH:HDW-DNUSCD
INH:HDW-FPC
INH:HDW-GDSF
INH:HDW-GDSUCOM
INH:HDW-GDXACC
INH:HDW-GDXC
INH:HDW-GDXCON
INH:HDW-GRID
INH:HDW-GRIDBD
INH:HDW-HDFI
INH:HDW-IDCU
INH:HDW-IFAC
INH:HDW-ISLUHLSC
INH:HDW-ISLUMAN
INH:HDW-ISLURG
INH:HDW-ISTF
INH:HDW-LDSF
INH:HDW-LDSU
INH:HDW-LDSUCOM
INH:HDW-LUCHAN
INH:HDW-LUCOMC
INH:HDW-LUHLSC
INH:HDW-MCTSI-A
INH:HDW-MCTSI-B
INH:HDW-MMP
INH:HDW-MSCU
INH:HDW-MSUCOM
INH:HDW-NCREF
INH:HDW-ONTC
INH:HDW-PLTLK
INH:HDW-PPC
INH:HDW-QGP

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INH:HDW-RAF
INH:HDW-RCL
INH:HDW-RCLK
INH:HDW-RCOSC
INH:HDW-RCOXC
INH:HDW-RCREF
INH:HDW-RCXC
INH:HDW-RDFI
INH:HDW-RLI
INH:HDW-RRCLK
INH:HDW-RVPT
INH:HDW-SAS
INH:HDW-SDFI
INH:HDW-SFI
INH:HDW-SM
INH:HDW-TAC
INH:HDW-TEN
INH:HDW-TMUX
INH:HDW-TTFCOM
INH:HDW-UCONF
INH:HDW-UTD
INH:HDW-UTG
INH:HDWCHK
INH:HWGRD
OP:HDWCHK

105. HIGH-SPEED SYNCHRONOUS DATA LINK

OP:HSD
OP:HSDC
RMV:HSD
RST:HSD

105.1 High-Speed Synchronous Data Link Controller

DGN:HSDC
EX:HSDC
RMV:HSDC
RST:HSDC

106. HIGH PRIORITY REMOTE INTERFACE

CLR:HPRI
OP:HPRI
SET:HPRI

107. INHIBITS

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OP:ERRCHK

108. IN-PROCESS CALL TRACING

TRC:IPCT

109. INPUT/OUTPUT PROCESSOR

DGN:IOP
EX:IOP
OP:IOP
RMV:IOP
RST:IOP

109.1 Input/Output Processor Driver

CLR:IODRV
CLR:IOMEM
OP:IODRV
SET:IODRV

110. INPUT MESSAGE CATALOG

CLR:IMCAT

111. INTEGRATED DIGITAL CARRIER UNIT

ABT:IDCU
ABT:IDCUELI
ABT:IDCUPIDB
ABT:RMV-RT
ABT:RST-RT
ALW:HDW-IDCU
ALW:HDW-IDCUELI
ALW:RT-REPT
CNVT:RT
DGN:IDCU
DUMP:UT-IDCU
DUMP:UT-IDCULSI
EX:IDCU
EXC:RT-PROV
INH:HDW-IDCU
INH:HDW-IDCUELI
INH:RT-REPT
LOAD:UT-IDCU
LOAD:UT-IDCULSI
OP:RT-PROV

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OP:RT-REPT
RMV:IDCU
RMV:IDCUELI
RMV:IDCUEOC
RMV:IDCUPIDB
RMV:IDCUTMC
RST:IDCU
RST:IDCUELI
RST:IDCUEOC
RST:IDCUPIDB
RST:IDCUTMC
STP:IDCU
STP:IDCUELI
STP:IDCUEOC
STP:IDCUPIDB
STP:IDCUTMC
STP:RMV-RT
STP:RST-RT
SW:IDCU
SW:IDCUEOC
SW:IDCUTMC

112. INTEGRATED SERVICES DIGITAL NETWORK

CLR:ISUP
EXC:RDTA-A
EXC:RDTA-B
OP:LISTOTO
OP:RDTA-A
OP:RDTA-B
SET:ISUP
STP:RDTA
UPD:RDTA
VFY:RDTA-A
VFY:RDTA-B

113. INTEGRATED SERVICES LINE UNIT

ABT:ISLUCC
ABT:ISLUCD
ALW:HDW-ISLU
ALW:HDW-ISLUCD
ALW:MISMATCH
DGN:ISLUCC
DGN:ISLUCD
DGN:ISLULC
DGN:ISLULGC
EX:ISLUCC
EX:ISLUCD
EX:ISLULC

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EX:ISLULGC
INH:HDW-ISLUCC
INH:HDW-ISLUCD
INH:MISMATCH
OP:HIST
OP:HISTORY-A
OP:HISTORY-B
OP:HISTORY-C
RMV:ISLUCD
RMV:ISLULC
RMV:ISLULGC
RST:ISLUCC
RST:ISLUCD
RST:ISLULC
RST:ISLULGC
STP:ISLUCC
STP:ISLUCD
STP:ISLULC
STP:ISLULGC
SW:ISLUCC
SW:ISLUCD

113.1 Integrated Services Line Unit Common Controller

ALW:HDW-ISLUCC
DUMP:UT-ISLUCC
EXC:UT-ISLUCC
LOAD:UT-ISLUCC
RMV:ISLUCC

113.2 Integrated Services Line Unit High Level Service Circuit

ABT:ISLUHLSC
ALW:HDW-ISLUHLSC
DGN:ISLUHLSC
EX:ISLUHLSC
INH:HDW-ISLUHLSC
RMV:ISLUHLSC
RST:ISLUHLSC
STP:ISLUHLSC

113.3 Integrated Services Line Unit Integrated Services Test Function

ABT:ISTF
ALW:HDW-ISTF
DGN:ISTF
EX:ISTF
INH:HDW-ISTF
RMV:ISTF

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RST:ISTF
STP:ISTF

113.4 Integrated Services Line Unit Line Board

ABT:ISLULBD
DGN:ISLULBD
EX:ISLULBD
RMV:ISLULBD
RST:ISLULBD
STP:ISLULBD

113.5 Integrated Services Line Unit Line Circuit

ABT:ISLULCKT
DGN:ISLULCKT
EX:ISLULCKT
RMV:ISLULCKT
RST:ISLULCKT
STP:ISLULCKT

113.6 Integrated Services Line Unit Line Group

ABT:ISLULG
DGN:ISLULG
RMV:ISLULG
RST:ISLULG
STP:ISLULG

113.7 Integrated Services Line Unit Metallic Access Network

ABT:ISLULC
ABT:ISLULGC
ABT:ISLUMAN
ALW:HDW-ISLUMAN
DGN:ISLUMAN
EX:ISLUMAN
INH:HDW-ISLUMAN
RMV:ISLUMAN
RST:ISLUMAN
STP:ISLUMAN

113.8 Integrated Services Line Unit Peripheral Interface Data Bus

ABT:ISLUPIDB
DUMP:UT-MCTSI-PI-A
DUMP:UT-MCTSI-PI-B

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EXC:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
RMV:ISLUPIDB
RST:ISLUPIDB
STP:ISLUPIDB

113.9 Integrated Services Line Unit Ringing Generator

ABT:ISLURG
ALW:HDW-ISLURG
DGN:ISLURG
EX:ISLURG
INH:HDW-ISLURG
RMV:ISLURG
RST:ISLURG
STP:ISLURG

114. INTER-WORKING GATEWAY

ABT:IWGFAC
ABT:IWGLI
ALW:HDW-IWGLI
DGN:IWGLI
INH:HDW-IWGLI
RMV:IWGFAC
RMV:IWGLI
RST:IWGFAC
RST:IWGLI
STP:IWGFAC
STP:IWGLI
STP:TST-PATH-A
STP:TST-PATH-B
STP:TST-PATH-C
SW:IWGLI
TST:PATH-A
TST:PATH-B
TST:PATH-C

115. INTER-WORKING UNIT

ABT:IWUFAC
RMV:IWUFAC
RST:IWUFAC
STP:IWUFAC

116. INTERNET PROTOCOL

OP:IPCFG

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OP:IPTRFC
STP:IPCFG

117. JOB STATUS

OP:JOBSTATUS-A
OP:JOBSTATUS-B

118. LIBRARY PROGRAM

ABT:LIB
CLR:LIB
LOAD:LIB
OP:LIB-DISK
OP:LIB-STATUS
ST:LIB
STP:LIB
TELL:LIB

119. LINE INSULATION TEST

EXC:LIT
OP:LIT
STP:LIT

120. LINE UNIT

ABT:TST-LEN
RST:PERF
STP:TST-LEN
TST:LEN

120.1 Line Unit A-Link

RMV:ALINK
RST:ALINK
SET:ALINK

120.2 Line Unit Channel

ABT:LUCHAN
ALW:HDW-LUCHAN
DGN:LUCHAN
EX:LUCHAN
INH:HDW-LUCHAN
RMV:LUCHAN

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RST:LUCHAN
SET:LUCHAN
STP:LUCHAN

120.3 Line Unit Channel Board

ABT:LUCHBD
DGN:LUCHBD
RMV:LUCHBD
RST:LUCHBD
STP:LUCHBD

120.4 Line Unit Command Control

ABT:LUCOMC
ALW:HDW-LUCOMC
DGN:LUCOMC
EX:LUCOMC
INH:HDW-LUCOMC
RMV:LUCOMC
RST:LUCOMC
STP:LUCOMC
SW:LUCOMC

120.5 Line Unit High Level Service Circuit

ABT:LUHLSC
ALW:HDW-LUHLSC
DGN:LUHLSC
EX:LUHLSC
INH:HDW-LUHLSC
RMV:LUHLSC
RST:LUHLSC
STP:LUHLSC

120.6 Line Unit Model 2 Grid Board

ABT:GRIDBD
ALW:HDW-GRIDBD
DGN:GRIDBD
EX:GRIDBD
RMV:GRIDBD
RST:GRIDBD
STP:GRIDBD
TST:GRIDBD

121. LINK INTERFACE

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ABT:LI
DGN:LI
EX:LI
OP:ST-LI
STP:LI

122. LOADING

LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:UT-FPC
LOAD:UT-MMP
LOAD:UT-PPC
LOAD:UVAR

123. LOCAL AREA SIGNALING SERVICES

OP:ILHB
OP:OLHB

124. LOCAL NUMBER PORTABILITY

TST:LNP

125. LOCAL DIGITAL SERVICE FUNCTION

ABT:LDSF
ALW:HDW-LDSF
DGN:LDSF
EX:LDSF
INH:HDW-LDSF
RMV:LDSF
RST:LDSF
STP:LDSF

126. LOCAL DIGITAL SERVICE UNIT

ABT:LDSU
ALW:HDW-LDSU
DGN:LDSU
EX:LDSU
INH:HDW-LDSU
RMV:LDSU
RST:LDSU
STP:LDSU

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127. \0\0\0Local Digital Service Unit Common Board

ABT:LDSUCOM
ALW:HDW-LDSUCOM
DGN:LDSUCOM
EX:LDSUCOM
INH:HDW-LDSUCOM
RMV:LDSUCOM
RST:LDSUCOM
STP:LDSUCOM

128. LOGS

ALW:CONFLOG
ALW:CORCLOG-SM
ALW:RCLOG
CHG:LPS-MSGCLS
CNVT:CORCLOG
CNVT:RCLOG
COPY:LOG-TAPE
DEL:LOG
EXC:ODDRCVY
INH:CONFLOG
INH:CORCLOG-SM
INH:RCLOG
OP:AVAILLOG
OP:CORCSTAT-SM
OP:G-APPLLOG
OP:G-READLOG
OP:LOG
OP:LPS
OP:MEMERRS

129. MACHINE-DETECTED INTEROFFICE IRREGULARITY

ALW:MDII-A
ALW:MDII-B
INH:MDII-A
INH:MDII-B
OP:MDII
OP:TERACNTS-A
OP:TERACNTS-B

130. MAGNETIC TAPE

DGN:MT
EX:MT

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OP:MT-INFO-A
OP:MT-INFO-B

130.1 Magnetic Tape Controller

DGN:MTC
EX:MTC
RMV:MTC
RST:MTC

130.2 Magnetic Tape Device

RMV:MT
RST:MT

131. MAINTENANCE STATUS

ALW:DMQ
INH:DMQ
OP:DMQ
OP:DMQ-CM-SM
OP:ST-SERV
STOP:DMQ
STP:DMQ
STP:DMQ-SM
SW:SERV

132. MAINTENANCE TELETYPEWRITER

OP:MTTY
OP:MTTYC
RMV:MTTY
RST:MTTY

132.1 Maintenance Teletypewriter Controller

DGN:MTTYC
EX:MTTYC
RMV:MTTYC
RST:MTTYC

133. MASTER CONTROL CENTER

OP:CONFIRM
OP:VERS
SET:CONFIRM

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134. MEMORY

CFR:PMEM
CFR:SPRMEM-A
CFR:SPRMEM-B
CFR:SPRMEM-C
CFR:SPRMEM-D
CFR:SPRMEM-E
CFR:SPRMEM-F
CFR:SPRMEM-G
DUMP:SMMAP
ST:NIPMP-A
ST:NIPMP-B
ST:NIPMP-C
ST:NIPMP-D
ST:NIPMP-E
ST:NIPMP-F
ST:NIPMP-G
STP:NIPMP
UPD:FLASH

135. MESSAGE INTERFACE

ABT:MI
DGN:MI
EX:MI
OP:ST-MI

135.1 Message Interface Clock Unit

ABT:MICU
DGN:MICU
STP:MICU

136. MESSAGE SWITCH

ABT:MSGS
DGN:MSGS
OP:VERS
RMV:MSGS
RST:MSGS
STP:MSGS

136.1 Message Switch Control Unit

ABT:MSCU
ALW:HDW-MSCU

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DGN:MSCU
EX:MSCU
INH:HDW-MSCU
RMV:MSCU
RST:MSCU
STP:MSCU

137. MESSAGE WAITING INDICATOR

CLR:MWI
SET:MWI

138. METALLIC ACCESS

ABT:MA
DGN:MA
EX:MA
RMV:MA
RST:MA
STP:MA

138.1 Metallic Access Bus

ABT:MAB
ABT:MTB
DGN:MAB
DGN:MTB
EX:MAB
EX:MTB
RMV:MAB
RMV:MTB
RST:MAB
RST:MTB
STP:MAB
STP:MTB

139. METALLIC SERVICE UNIT

139.1 Metallic Service Unit Distribute Point

EX:DISTPT

139.2 Metallic Service Unit Common Board

ABT:MSUCOM
DGN:MSUCOM
EX:MSUCOM

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RMV:MSUCOM
RST:MSUCOM
STP:MSUCOM

139.3 Metallic Service Unit Scan Points

OP:MSUSP

140. METALLIC TEST BUS

ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBOVR
INH:RTMTBPRT

141. METALLIC TEST INTERCONNECT BUS

ABT:MTIB
DGN:MTIB
EX:MTIB
RMV:MTIB
RST:MTIB
STP:MTIB

141.1 Metallic Test Interconnect Bus Access

ABT:MTIBAX
DGN:MTIBAX
EX:MTIBAX
RMV:MTIBAX
RST:MTIBAX
STP:MTIBAX

142. MOBILE SWITCHING CENTER

OP:OMP

143. MODULE CONTROLLER/TIME-SLOT INTERCHANGE

ABT:MCTSI
CLR:MCTSI
DGN:MCTSI
DUMP:UT-MCTSI-MH
EX:MCTSI
EXC:UT-MCTSI-MH-A
EXC:UT-MCTSI-MH-B

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LOAD:UT-MCTSI-MH
RMV:MCTSI
RST:MCTSI
SET:MCTSI
STP:MCTSI
SW:MCTSI

143.1 MCTSI Links

OP:ST-MELNK
RMV:MELNK
RST:MELNK

144. MODULE MESSAGE PROCESSOR

ABT:MMP
ALW:HDW-MMP
DGN:MMP
DUMP:UT-MMP
EX:MMP
EXC:UT-MMP
INH:HDW-MMP
LOAD:UT-MMP
RMV:MMP
RST:MMP
STP:MMP

145. MOVING HEAD DISK

ALW:AUTOCFG
CLR:MHD-MAEC
CMPR:MHD
DGN:MHD
DUMP:MHD-BLOCK
DUMP:MHD-DEFECT
DUMP:MHD-VTOC
EX:MHD
INH:AUTOCFG
INIT:MHD
LOAD:MHD
LOAD:MHD-FIRMWARE
OP:MHD-CFG
OP:MHD-INFO-A
OP:MHD-INFO-B
RMV:MHD
RST:MHD
STOP:CMPR-MHD
STP:CMPR-MHD
SW:MHD

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VFY:MHD

146. NAIL-UP CONNECTIONS

OP:LIST-ISMNAIL-A
OP:LIST-ISMNAIL-B
OP:NAILUP-A
OP:NAILUP-B
OP:ST-ISMNAIL
OP:ST-ISMTS
RMV:ISMNAIL
RST:ISMNAIL
STP:ISMNAIL

147. NETWORK CLOCK

ABT:NC
DGN:NC
DUMP:NC
EX:NC
SET:NC

148. \0\0\0Network Clock Reference

ALW:HDW-NCREF
INH:HDW-NCREF
RMV:NCREF
RST:NCREF
SW:NCREF

148.1 Network Clock Oscillator

CLR:FRC-NCOSC
RMV:NCOSC
RST:NCOSC
SET:FRC-NCOSC
SW:NCOSC

148.2 Network Clock Oscillator Cross-Couple

RMV:OSCXC
RST:OSCXC

149. NETWORK LINK INTERFACE

ABT:NLI

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DGN:NLI
EX:NLI
RMV:NLI-A
RMV:NLI-B
RST:NLI
STP:NLI

150. NETWORK MANAGEMENT

ALW:NMOUT-A
ALW:NMOUT-B
ASGN:MHTR
ASGN:NMNODES
ASGN:NMSCH
AUD:NMDATA
CLR:NMNODES
CLR:NMSCH
INH:NMOUT-A
INH:NMOUT-B
OP:NMNODES
OP:NMOUT
OP:NMPGE
OP:NMSCH
OP:NMTHD
SET:NMTHD
STP:NMOP

151. NODE PROCESSOR MEMORY

OP:NPMEM

152. NON-RESIDENT CALL TRACE LIST

OP:CLID
TRC:CLID

153. NON-VOLATILE MEMORY

OP:NVMEM-PSUCOM-A
OP:NVMEM-PSUCOM-B
OP:NVMEM-PSUPH

154. OFF-NORMAL STATUS

OP:OFFNORM-IS
OP:OFFNORM-PRI
OP:OFFNORM-QPHN

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OP:OFFNORM-SM
OP:SYSSTAT

155. OFFICE DEPENDENT DATA

ABT:ODDBKUP
BKUP:ODD
CLR:ODDBKUP
CNVT:STANDALONE
COPY:LOG-TAPE
OP:BKUPSTAT
OP:ODD-AM-SM
OP:ODDWARN
SET:BACKOUT
ST:DBPROXY
ST:MODGRW-RSM
ST:NRODDGRW-A
ST:NRODDGRW-B
ST:ODDBST
ST:ODDCREAT-SM
ST:ODDRM-SM
ST:ODDUPD
ST:RODDGRW
ST:UODDGRW
ST:UODDGRW-SM
STP:LIST
STP:ODDEVOL
STP:SW

156. OFFICE NETWORK

156.1 Office Network and Timing Common Unit

ABT:ONTCCOM
DGN:ONTCCOM
RMV:ONTCCOM
RST:ONTCCOM
STP:ONTCCOM

156.2 Office Network and Timer Coupler

ABT:ONTC
DGN:ONTC
INH:HDW-ONTC
RMV:ONTC
RST:ONTC
SW:ONTC

157. OFFICE RECORDS

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ABT:OFR
IN:OFR-PARM
OP:OFR-CAT
OP:OFR-FORM
OP:OFR-STATUS
STP:OFR

158. OFFICE-TO-OFFICE TESTING

ABT:OTO
EX:OTO
OP:LISTOTO

159. OFFLINE PUMP

OP:OPUMP
ST:OPUMP-CMP
ST:OPUMP-SM
STP:OPUMP
STP:OPUMP-SM

160. OPERATING SYSTEM FOR DISTRIBUTED SWITCHING

OP:PERF

160.1 Monitor

ALW:MON
CLR:MON
INH:MON
OP:MON-CTL
OP:MON-DSP-A
OP:MON-DSP-B
OP:MON-DSP-C
OP:MON-DSP-D
OP:MON-PID
SET:MON-CID
SET:MON-DATA
SET:MON-FCN
SET:MON-SPEC
SET:MON-WTD-A
SET:MON-WTD-B
SET:MON-WTD-C
SET:MON-WTD-D
STP:OP-MON

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161. OPERATOR SERVICES POSITION SYSTEM

OP:OSPS
RMV:OSPSPORT
RST:OSPSPORT
TST:OSPS

161.1 Digital Subscriber Line

INIT:DSL
TST:DSL

162. OPTICAL CARRIER LEVEL 3

ABT:OC3
ABT:OC3C
CLR:OC3
CLR:OC3C
OP:APSSTAT
RST:OC3
RST:OC3C
SET:OC3
SET:OC3C
STP:OC3
STP:OC3C

163. OPTICAL FACILITY INTERFACE

ABT:OFI
DGN:OFI
DUMP:UT-OFI
EXC:UT-OFI
INH:HDW-OFI
LOAD:UT-OFI
OP:NETSTAT
RMV:OC3
RMV:OC3C
RST:OFI
STP:OFI

164. OPTICAL INTERFACE UNIT

ABT:PPPLK
OP:INVEN-A
OP:INVEN-B
OP:NETSTAT
OP:PSC

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RMV:OFI
RMV:PPPLK
RST:PPPLK
STP:PPPLK

165. ORIGINATING LINE NUMBER SCREENING

TST:OLNS

166. OUT-OF-SERVICE UNIT

COPY:OOSDISK
INH:IMSMEAS
OP:LIST-A
OP:LIST-B
OP:LISTOTO
OP:OOS
RMV:DATALINK
RMV:LINE
RST:DATALINK
RST:LINE
STP:LISTOTO

167. OUTPUT MESSAGE DATA BASE

ABT:PAG
ACTV:OMDB
APPLY:OMDB
OP:OMDB
RMV:PAG
RMV:QLPS
RST:PAG
STP:PAG
UPD:OMDB

168. OVERLOAD STATUS

OP:OVRLD-AM-SM

169. PACKET CONTROL FUNCTION

OP:PCF-A
OP:PCF-B
STP:PCF

170. PACKET INTERFACE

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ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
IF:UT-MCTSI-PE
IF:UT-MCTSI-PI
INH:UT-MCTSI-PI
OP:UT-MCTSI-PI
TST:PHPATH-A
TST:PHPATH-B
WHEN:UT-MCTSI-PI

171. PACKET INTERNET GROPER

EXC:PING-A
EXC:PING-B

172. PACKET SWITCH UNIT

ALW:HDW-PSUCOM-A
ALW:HDW-PSUCOM-B
ALW:HDW-PSUPH-A
ALW:HDW-PSUPH-B
EXC:UT-PSUCOM-A
EXC:UT-PSUCOM-B
OP:NVMEM-PSUCOM-A
OP:NVMEM-PSUCOM-B
OP:NVMEM-PSUPH
TST:PSUPH-FAULT-A
TST:PSUPH-FAULT-B

173. \0\0\0Packet Switch Unit Common Controller

ABT:PSUCOM-A
ABT:PSUCOM-B
CLR:PSUCOM-A
CLR:PSUCOM-B
DGN:PSUCOM-A
DGN:PSUCOM-B
EX:PSUCOM-A
EX:PSUCOM-B
INH:HDW-PSUCOM-A
INH:HDW-PSUCOM-B
OP:ST-PSUCOM
RMV:PSUCOM-A
RMV:PSUCOM-B
RST:PSUCOM-A

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RST:PSUCOM-B
SET:PSUCOM-A
SET:PSUCOM-B
SET:PSUCOM-C
STP:PSUCOM-A
STP:PSUCOM-B
SW:PSUCOM-A
SW:PSUCOM-B

173.1 Packet Switch Unit Ethernet Link

OP:CONV-PSELNK
OP:ST-PSELNK

173.2 Packet Switch Unit Link

CLR:PSLNK-A
CLR:PSLNK-B
OP:CONV-PSLNK-A
OP:CONV-PSLNK-B
OP:CONV-PSLNK-C
OP:ST-PSLNK-A
OP:ST-PSLNK-B
SET:PSLNK-A
SET:PSLNK-B
SW:PSLNK-A
SW:PSLNK-B
TST:PSLNK-A
TST:PSLNK-B
TST:PSLNK-C
TST:PSLNK-D
TST:PSLNK-E

173.3 Packet Switch Unit Peripheral Interface Data Bus

ABT:PSUPIDB
RMV:PSUPIDB
RST:PSUPIDB
STP:PSUPIDB

173.4 Packet Switch Unit Protocol Handler

ABT:PSUPH-A
ABT:PSUPH-B
ALW:UT-PSUPH-A
ALW:UT-PSUPH-B
CLR:UT-PSUPH-A
CLR:UT-PSUPH-B

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COPY:UT-PSUPH-A
COPY:UT-PSUPH-B
COPY:UT-PSUPH-C
DGN:PSUPH-A
DGN:PSUPH-B
DUMP:UT-PSUPH-A
DUMP:UT-PSUPH-B
DUMP:UT-PSUPH-C
ELSE:UT-PSUPH-A
ELSE:UT-PSUPH-B
END:UT-PSUPH-A
END:UT-PSUPH-B
EX:PSUPH-A
EX:PSUPH-B
EXC:UT-PSUPH-A
EXC:UT-PSUPH-B
EXC:UT-PSUPH-C
IF:UT-PSUPH-A
IF:UT-PSUPH-B
IF:UT-PSUPH-C
IF:UT-PSUPH-END-A
IF:UT-PSUPH-END-B
INH:HDW-PSUPH-A
INH:HDW-PSUPH-B
INH:UT-PSUPH-A
INH:UT-PSUPH-B
LOAD:UT-PSUPH-A
LOAD:UT-PSUPH-B
OP:UT-PSUPH-A
OP:UT-PSUPH-B
RMV:PSUPH-A
RMV:PSUPH-B
RST:PSUPH-A
RST:PSUPH-B
STP:PSUPH-A
STP:PSUPH-B
SW:PSUPH
WHEN:UT-PSUPH-A
WHEN:UT-PSUPH-B
WHEN:UT-PSUPH-C

174. PARTITIONS

CLR:PTN
COPY:PTN-ALL
VFY:OFC-A
VFY:OFC-B

175. PERFORMANCE MONITORING

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ALW:EXTPM
ALW:PM
INH:EXTPM
INH:PM
OP:LIST-FLOWACT

176. PERIODIC PULSE METERING CIRCUIT

ABT:PPMTC

177. PERIODIC SIGNALING LINK TEST

INH:CCS-PSLT

178. PERIPHERAL CONTROL AND TIMING

178.1 Peripheral Control and Timing Date Exchanger

ABT:PCTDX
ALW:HDW-PCTDX
DGN:PCTDX
INH:HDW-PCTDX
RMV:PCTDX
RST:PCTDX
STP:PCTDX

178.2 Peripheral Control and Timing Link

ABT:PLTLK
ALW:HDW-PLTLK
DGN:PLTLK
INH:HDW-PLTLK
RMV:PLTLK
RST:PLTLK
STP:PLTLK
SW:PLTLK

178.3 Peripheral Control and Timing Link Tributary

ABT:TRIB
RMV:TRIB
RST:TRIB
STP:TRIB

179. PLANT MEASUREMENTS COMMON REPORT

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OP:PMCR

180. PLANT REPORT - 24 HOUR

ALW:PLNT24-A
ALW:PLNT24-B
ALW:PLNTHR
INH:PLNT24-A
INH:PLNT24-B
INH:PLNTHR
OP:PLNTHR
OP:PLNTMO
REPT:PLNTHR

181. PORTS

OP:ST
OP:ST-PORTS
STP:CAMP
SW:PORTSW

182. POSTMORTEM

OP:PM
OP:PM-PP-MCTSI
OP:PM-SM
OP:POSTMORT-A
OP:POSTMORT-B
OP:POSTMORT-CMP
RLS:PM-PP-MCTSI
RLS:PM-SM
RLS:POSTMORT
STP:PM-A
STP:PM-B
CHG:PRNTMODE-A
CHG:PRNTMODE-B
UPD:PRINT

183. PROCESSES

EXC:ENVIR-PROC
EXC:ENVIR-UPROC
OP:RELSPACE
OP:ST-PROC
STOP:EXC-ANY
STOP:EXC-USER
STP:EX
STP:EXC-ANY

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STP:EXC-USER

184. PROTOCOL

184.1 Protocol Circuit

EXC:PM-A
EXC:PM-B
EXC:PM-C
EXC:PM-D

184.2 Protocol Handler

ALW:TFTP
INH:TFTP
OP:CONV-PHGRP
OP:IPCON
OP:NPH
OP:ST-PHGRP
OP:ST-SCTP
OP:TFTP
STP:NPH
SW:PHGRP
TST:PHPATH-A
TST:PHPATH-B

184.3 Protocol Monitoring

ABT:PROTO
DGN:PROTO
EX:PROTO
RMV:PROTO
RST:PROTO
STP:PROTO

185. PUMP PERIPHERAL CONTROLLER

ABT:PPC
ALW:HDW-PPC
DGN:PPC
DUMP:UT-PPC
EX:PPC
EXC:UT-PPC
INH:HDW-PPC
LOAD:UT-PPC
RMV:PPC
RST:PPC
STP:PPC

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SW:PPC

186. QUAD-LINK PACKET SWITCH

ABT:QLPS
DGN:QLPS
EX:QLPS
OP:QNETSTAT
RST:QLPS
SW:QLPS

186.1 Quad-Link Packet Switch Protocol Handler

OP:ST-GQPHLNK
OP:ST-GQPHPIPE
RMV:GQPHPIPE
RMV:QPHPIPE
RST:GQPHPIPE
RST:QPHPIPE

186.2 Quad-Link Packet Switch Gateway Processor

ABT:QGP
ALW:HDW-QGP
DGN:QGP
DUMP:UT-QGP
EX:QGP
EXC:UT-QGP
INH:HDW-QGP
LOAD:UT-QGP
RMV:QGP
RST:QGP
STP:QGP

186.3 Quad-Link Packet Switch Gateway Processor Link

RST:QGL

187. \0\0\0Quad-Link Packet Switch Time Multiplexed Switch Link

OP:QLPSTS
RST:QTMSLNK

188. RADIO PORT CONTROLLER UNIT

OP:RPCU

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STP:RPCU

189. REAL TIME BILLING MEMORY

CFR:RTBM
VFY:RTBM

190. REAL TIME CALL DETAIL

OP:RTCD

191. RECEIVE-ONLY PRINTER

OP:ROP
RMV:ROP
RST:ROP

192. RECENT CHANGE

ALW:CORC
ALW:CORCLOG-SM
ALW:RC
ALW:RCDLY
ALW:RCLOG
CNVT:CORCLOG
CNVT:RCLOG
EXC:ODDRCVY
EXC:RCDECODE
EXC:RCRLS
EXC:RCRMV
INH:CORC
INH:CORCLOG-SM
INH:RC
INH:RCDLY
INH:RCLOG
OP:CORCSTAT-SM
OP:RCACCESS
OP:RCDLY
OP:RCHIST
OP:RCRLS
OP:RCRMV
OP:RCSTAT-SM
OP:RCUSER
RCV:APPTEXT
RCV:DMTECD-RC
RCV:DMTECD-VFY
RCV:DMTSG-RC
RCV:DMTSG-VFY

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RCV:M-ACCED
RCV:M-APPRC
RCV:M-BKUPCHK
RCV:M-BROWSE
RCV:M-CNIDBOC
RCV:M-CNIGROWTH
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-GENBKUP
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-ODBE
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-RDLDFT
RCV:M-RTAG
RCV:M-SCREEN
RCV:M-SH
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
RCV:M-VFYTXT
REPT:RCHIST
SET:RCACCESS
ST:OVERLAY
STP:RCHIST
STP:RCRLS
STP:RCRMV

192.1 Global Recent Change

CLR:GRC
EXC:GRC
EXC:GRCPASSWORD
GRC:CANCEL
GRC:CONTINUE
GRC:HALT
GRC:PASSWORD
GRC:REPORT
GRC:RESCHED
GRC:RMV
GRC:TEST-NAME
REPT:GRC

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RMV:GRC
SCHED:GRC
STP:GRC
TST:GRC

192.2 Recent Change Security Group

OP:RCSECGRP
SET:RCSECGRP

193. RECORDED ANNOUNCEMENT FRAME

ABT:RAF
ALW:HDW-RAF
DGN:RAF
EX:RAF
INH:HDW-RAF
RMV:RAF
RST:RAF
STP:RAF

194. REGISTERS

COPY:REG
DUMP:REG
INIT:REG
LOAD:REG
OP:REG

195. REMOTE BUILDING AND MISCELLANEOUS SCAN POINT

INH:RBPSC-SM

196. REMOTE CLOCK

ABT:RCLK
ALW:HDW-RCLK
DGN:RCLK
EX:RCLK
INH:HDW-RCLK
RMV:RCLK
RST:RCLK
SET:RCLK
STP:RCLK
SW:RCLK

196.1 Remote Clock Cross Couple

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ABT:RCXC
RMV:RCXC
RST:RCXC

196.2 Remote Clock Oscillator

ABT:RCOSC
ALW:HDW-RCOSC
INH:HDW-RCOSC
RMV:RCOSC
RST:RCOSC
SW:RCOSC

196.3 Remote Clock Oscillator Couple

ABT:RCOXC
ALW:HDW-RCOXC
INH:HDW-RCOXC
RMV:RCOXC
RST:RCOXC

196.4 Remote Clock Reference

ABT:RCREF
ALW:HDW-RCREF
INH:HDW-RCREF
RMV:RCREF
RST:RCREF
SW:RCREF

197. REMOTE COMMON DATA AND CONTROL

EX:RCDDP

198. REMOTE COMMUNICATIONS LINK

ABT:RCL
RMV:RCL
RST:RCL
STP:RCL

199. REMOTE INTEGRATED SERVICE LINE UNIT

ABT:RRCLK
ALW:HDW-RRCLK

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DGN:RRCLK
EX:RRCLK
INH:HDW-RRCLK
RMV:RRCLK
RST:RRCLK
STP:RRCLK
SW:RRCLK

200. REMOTE SWITCHING MODULE

200.1 Remote Switching Module Alarm

ABT:RAU
DGN:RAU
EX:RAU
RMV:RAU
RST:RAU
STP:RAU

200.2 Remote Switching Module Digital Facility Interface

ABT:RDFI
DGN:RDFI
EX:RDFI
RMV:RDFI
RST:RDFI

200.3 Remote Switching Module Remote Link Interface

ABT:RLI
ALW:HDW-RLI
CFR:SAMEM
DGN:RLI
EX:RLI
INH:HDW-RLI
RMV:RLI
RST:RLI
STP:RLI
SW:RLI
VFY:SAMEM

201. REMOTE TERMINAL

ABT:RMV-RT
ABT:RST-RT
ALW:RT-FAC
ALW:RT-PROV-REPT
ALW:RT-REPT

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ALW:RTMTBOVR
ALW:RTMTBPRT
CLR:RT-FAC
CLR:RT-FACOFFN
CNVT:RT
EXC:RT-PROV
INH:RT-FAC
INH:RT-PROV-REPT
INH:RT-REPT
INH:RTMTBOVR
INH:RTMTBPRT
OP:RT-ALM-ALL
OP:RT-CHAN
OP:RT-FACOFFN
OP:RT-PROV
OP:RT-REPT
OP:RT-SID-LRT
RMV:DNUSEOC
RMV:DNUSTMC
RMV:IDCUEOC
RMV:IDCUTMC
RMV:RT-EOC
RMV:RT-TMC
RMV:RTFAC
RST:DNUSEOC
RST:DNUSTMC
RST:IDCUEOC
RST:IDCUTMC
RST:RT-EOC
RST:RT-TMC
RST:RTFAC
RST:RTFAC
SET:RT-FAC
SET:RT-FACOFFN
STP:DNUSEOC
STP:DNUSTMC
STP:IDCUEOC
STP:IDCUTMC
STP:RMV-RT
STP:RST-RT
STP:RTFAC
SW:DNUSEOC
SW:DNUSTMC
SW:IDCUEOC
SW:IDCUTMC
SW:RT-EOC
SW:RT-TMC

202. REORGANIZATION

ALW:REORG

EXC:REORG
INH:REORG
SET:REORG

203. REPORTS

OP:ANITBL
OP:PLNT24-A
OP:PLNT24-B
OP:PMCR

204. RETROFIT

OP:MEMSIZE
STP:MEMSIZE

205. REVERTIVE PULSING TRANSCEIVER

ABT:RVPT
ALW:HDW-RVPT
DGN:RVPT
EX:RVPT
INH:HDW-RVPT
RMV:RVPT
RST:RVPT
STP:RVPT

206. RING

ALW:RTRACK
EXC:RTRACK
INH:RTRACK
OP:RTRACK
STOP:RTRACK

206.1 Ring Peripheral Controller Node

DGN:RPCN
EX:RPCN
OP:CLID
RMV:RPCN
RST:RPCN

207. ROUTINE EXERCISE

ABT:GKCCR

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ALW:GKCCR
ALW:REX
ALW:REX-CM-SM
ALW:REX-UNIT
EXC:GKCCR
EXC:REX-CM-SM
EXC:SCHED
INH:GKCCR
INH:REX
INH:REX-AM-SM
INH:REX-CM-SM
INH:REX-UNIT
OP:REX-CM-SM
OP:REXINH
RCV:M-IREX
STP:REX-CM-SM

208. ROUTINE PORT CONDITIONING

ALW:RPC
INH:RPC
OP:RPC-SM

209. SCAN POINT BOARD

ABT:SCAN
DGN:SCAN
EX:SCAN
ORD:SCAN-A
ORD:SCAN-B
RMV:SCAN
RST:SCAN
STP:SCAN

210. SCANNER AND SIGNAL DISTRIBUTOR

210.1 Scanner and Signal Distributor Controller

DGN:SCSDC
EX:SCSDC
RMV:SCSDC
RST:SCSDC

210.2 Scanner and Signal Distributor Scan Points

ALW:SCSD
INH:SCSD
OP:SCSD

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ORD:SCSD

211. SELECTIVE INCOMING LOAD CONTROL

ALW:DSILC
ASGN:SILC
CLR:SILC
INH:DSILC
OP:SILC

212. SERVICE ANNOUNCEMENT SYSTEM

ABT:SAS
ALW:HDW-SAS
DGN:SAS
EX:SAS
INH:HDW-SAS
RMV:SAS
RST:SAS
STP:SAS

213. SESSION INITIATION PROTOCOL FOR TELEPHONY

CLR:SIPDMP
OP:SIPDMP
OP:ST-SCTP
OP:ST-SIP
STP:ST-SIP

214. SIGNALING

ALW:TRAP
EXC:MRVT-PC
INH:TRAP
OP:C7NET
OP:LASSRQST
OP:TRAP
SET:TRAP
STOP:TRAP
TST:ACPNUM

215. SIGNALING SYSTEM 7

ALW:S7ACK
ALW:S7RPT
ALW:S7XCHK
EXC:S7RPT

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EXC:S7XCHK
INH:S7ACK
INH:S7RPT
INH:S7XCHK
OP:S7ACK
OP:S7RPT
OP:S7XCHK
OP:SS7
SET:S7RPT
STP:S7RPT
STP:S7XCHK
STP:SS7

215.1 Common Channel Signaling System 7

CLR:CCS-SRST
INIT:SCCP
OP:CCS-ACDPC
OP:CCS-ACTLK
OP:CCS-CLS
OP:CCS-DPCLS
OP:CCS-GSM
OP:CCS-LSCLS
OP:CCS-MON
OP:CCS-OPC
OP:CCS-ROUTE
OP:CCS-SCMG
OP:CCS-SLS
OP:CCS-TPC
OP:ST-CCSLK
OP:ST-MD
OP:TPC
RMV:CCSLK-A
RMV:CCSLK-B
RMV:MD
RST:CCSLK
RST:MD
STP:CCS-ROUTE
TST:AILS-OLS
TST:AILS-TCS
TST:CAS7
TST:CCS-GSMCFG
TST:CCSLK
TST:ICCV
TST:LAC

215.2 Common Channel Signaling Protocol Monitoring

EXC:PMCCS
OP:PMCCS

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STP:PMCCS

216. SIGNALING LINK

CHG:SLK
INH:SLK
MON:SLK
OP:SLK
REKEY:SLK
REPT:SLK

217. SIGNALING CONNECTION CONTROL PART

CLR:SCMG

218. SIGNALING NETWORK ADMINISTRATOR TIME

OP:SNAT

219. SMALL COMPUTER SYSTEM INTERFACE

LOAD:DFC-PUMP
LOAD:DFC-RAM
RMV:SBUS
RST:SBUS

220. SOFTWARE CHECK

ALW:SFTCHK
ALW:SFTCHK-SM
ALW:SRM-A
ALW:SRM-B
INH:SFTCHK
INH:SFTCHK-SM
INH:SRM
OP:ERRCHK

221. SOFT HAND-OFF

OP:CA2IPMAP
OP:IPCON
OP:IPTRFC
OP:NBRLIST
QRY:CA2IPMAP
QRY:NBRLIST
TST:IPNET

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UPD:CA2IPMAP
UPD:NBRLIST

222. STATIC OFFICE DEPENDENT DATA

ALW:AUD-SODD
EXC:AUD-SODD
EXC:SODD-RED
EXC:SODD-RED-OP
EXC:SODD-STP
INH:AUD-SODD
OP:AUD-SODD
OP:ST-AUD-SODD
SCHED:AUD-SODD
STP:AUD-SODD

223. STATUS

OP:ST
OP:ST-APX
OP:ST-AUD-SM-A
OP:ST-AUD-SM-B
OP:ST-AUD-SODD
OP:ST-DSE
OP:ST-ENV-AUD
OP:ST-ISUP
OP:ST-LI
OP:ST-PLNT24
OP:ST-PROC
OP:ST-PSLNK-A
OP:ST-PSLNK-B
OP:ST-PSUCOM
OP:ST-QPHLNK
OP:ST-QPHPIPE
OP:ST-TRFC30
OP:STATUS-A
OP:STATUS-B
OP:STATUS-PS

224. STREAM CONTROL TRANSMISSION PROTOCOL

RMV:SCTP
RST:SCTP
STP:ST-SCTP

225. STUCK COIN FAILURE

OP:SCF

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226. SUBSCRIBER LINE BUSY

OP:SL-A
OP:SL-B
OP:SL-C

227. SUBSCRIBER LINE INSTRUMENT MEASUREMENT

ABT:SLIM
ABT:TSESS
ALW:TSESS
DGN:SLIM
EX:SLIM
INH:TSESS
OP:TSESS
OP:TSESS-DS
RMV:SLIM
RST:SLIM
STP:SLIM

228. SUBSCRIBER LOOP CARRIER

228.1 *SLC®*-96 Digital Carrier Line Unit

ABT:DCLU
DGN:DCLU
EX:DCLU
OP:LISTOTO
RMV:DCLU
RST:DCLU
STP:DCLU

228.2 *SLC®*-96 Digital Facility Interface

ABT:SDFI
ALW:HDW-SDFI
DGN:SDFI
EX:SDFI
INH:HDW-SDFI
RMV:SDFI
RST:SDFI
STP:SDFI

229. SWITCHING CONTROL CENTER

OP:SCC

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OP:VERS
RMV:SCC
RST:SCC

230. SWITCHING MODULE

ALW:AUD-SM
ALW:CPUQADM
ALW:PCTF
ALW:UT-SM
AUD:SM
CLR:UT-SM
COPY:UT-SM-A
COPY:UT-SM-B
DUMP:UT-SM-A
DUMP:UT-SM-B
DUMP:UT-SM-C
ELSE:UT-SM
END:UT-SM
EXC:UT-SM-A
EXC:UT-SM-B
IF:UT-SM-A
IF:UT-SM-B
IF:UT-SM-ENDIF
INH:PCTF
INH:UT-SM
INIT:SM-A
INIT:SM-B
INIT:SM-SPP
LOAD:UT-SM
OP:CFGSTAT-SM
OP:EQSTAT-A
OP:EQSTAT-B
OP:PCTF
OP:SMR
OP:SMST
RLS:SMST
RTE:SMST
STP:PCTF
WHEN:UT-SM-A
WHEN:UT-SM-B

230.1 Switching Module Peripheral Error

CLR:PERPH-SM
OP:PERPH-SM-SUM
SET:PERPH-SM

230.2 Host Switching Module Digital Facility Interface

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ABT:HDFI
ALW:HDW-HDFI
ALW:PUMP
CLR:ISOL-SM
CLR:MINMODE-SM
DGN:HDFI
EX:HDFI
INH:HDW-HDFI
RMV:HDFI
RST:HDFI
SET:ISOL-SM
SET:MINMODE-CNI
SET:MINMODE-SM
STP:HDFI
INH:PUMP-SM

231. SYNCHRONOUS DATA LINK

OP:SDL
OP:SDLC
RMV:SDL
RST:SDL

231.1 Synchronous Data Link Controller

DGN:SDLC
EX:SDLC
RMV:SDLC
RST:SDLC

232. SYNCHRONOUS TRANSPORT SIGNAL

ABT:STS1
ABT:STS3C
OP:PTRC-A
OP:PTRC-B
RMV:STS1
RMV:STS3C
RST:STS1
RST:STS3C
STP:STS1
STP:STS3C

233. SYSTEM TAPE

VFY:TAPE

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234. T1 FACILITY

ABT:FAC
ABT:IFAC
ALW:FAC-A
ALW:FAC-B
ALW:FAC-C
ALW:HDW-IFAC
ALW:RT-FAC
CHG:MRVT
CLR:RT-FAC
CLR:RT-FACOFFN
INH:RT-FAC
INIT:FAC-A
INIT:FAC-B
INIT:FAC-C
OP:FAC-A
OP:FAC-B
OP:FAC-C
OP:FACMAP
OP:RT-FACOFFN
RMV:FAC
RMV:IFAC
RST:FAC
RST:IFAC
SET:RT-FAC
SET:RT-FACOFFN
STP:FAC
STP:IFAC
TST:FAC

235. TAPE WRITER

STOP:BKDISK
STOP:CMPR-MHD
STOP:COPY-DIFF
STP:BKDISK

236. TELETYPEWRITER

OP:TTY
OP:TTYC
RMV:TTY
RST:TTY

236.1 Teletypewriter Controller

DGN:TTYC

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EX:TTYC
RMV:TTYC
RST:TTYC

237. TEST AND ACCESS CIRCUIT

ABT:TAC
ALW:HDW-TAC
DGN:TAC
EX:TAC
INH:HDW-TAC
RMV:TAC
RST:TAC
STP:TAC

238. TIME OF DAY

ALW:TOD
INH:TOD

239. TESTING

ASGN:TESTSET
OP:TESTSET
RLS:TESTSET
STP:TST-ELS
TST:DLNHB
TST:INWATS
TST:MP
TST:NCD
TST:NS800
TST:RATE
TST:VFL

240. TIME MULTIPLEX SWITCH

ABT:TMS
ABT:TMSFP
DGN:TMS
DGN:TMSFP
DUMP:TMS-A
DUMP:TMS-B
EX:TMS
LOAD:UT-TMS
RST:QTMSLNK
RST:TMSLNK-A
RST:TMSLNK-B

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240.1 Time Multiplexed Switch Fabric Pair

RMV:TMSFP
RST:TMSFP
STP:TMSFP
VFY:CPU

241. TIMESLOT MANAGEMENT CHANNEL

OP:RT-CHAN
RMV:DNUSTMC
RMV:IDCUTMC
RMV:RT-TMC
RST:DNUSTMC
RST:IDCUTMC
RST:RT-TMC
STP:DNUSTMC
STP:IDCUTMC
SW:DNUSTMC
SW:IDCUTMC
SW:RT-TMC

242. TRACE ROUTE

EXC:TRCRT
STP:TRCRT

243. TRAFFIC MEASUREMENT

ALW:TRFC15
ALW:TRFC30-A
ALW:TRFC30-B
ALW:TRFC30-C
BKUP:TRFM
INH:TRFC15
INH:TRFC30-A
INH:TRFC30-B
OP:MEASIC
OP:MEASTAT-A
OP:MEASTAT-B
OP:MEASTAT-MEM
OP:TRFC15
OP:TRFC30
RST:TRFM-A
RST:TRFM-B

244. TRANSFER

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IN:XFER

245. TRANSACTIONS

CLR:TRN
TST:AT1

246. TRANSLATIONS

OP:CONV-A
OP:CONV-B
OP:CONV-EXT-A
OP:CONV-EXT-B
OP:CONV-EXT-C
OP:CONV-INT
OP:CONV-PHA-A
OP:CONV-PHA-B
OP:CONV-PSLNK-A
OP:CONV-PSLNK-B
OP:CONV-PSLNK-C
OP:DIGTRC
OP:RTITRC

247. TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL

OP:TCPIP-ARPDMP
OP:TCPIP-RTDMP

248. TRANSMISSION RATE CONVERTER UNIT

OP:TRCU
SET:FRC-TRCU3

249. TRANSMISSION TEST FACILITY COMMON BOARD

ABT:TTFCOM
ALW:HDW-TTFCOM
DGN:TTFCOM
EX:TTFCOM
INH:HDW-TTFCOM
RMV:TTFCOM
RST:TTFCOM
STP:TTFCOM

250. TRUNK AND LINE WORK STATION

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ABT:TASK
ABT:TASK-TLWS
CLR:PB
CLR:SRST-DPC
CLR:WSDGTL
CLR:WSFREQ
CLR:WSOPD
CONN:WSIC
CONN:WSJACK
CONN:WSLINE
CONN:WSPHONE
CONN:WSPORT-A
CONN:WSPORT-B
CONN:WSTRK-A
CONN:WSTRK-B
CONN:WSTRK-C
DISC:WSLINE
DISC:WSPHONE
DISC:WSPORT-A
DISC:WSPORT-B
DISC:WSTRK
OP:PB
OP:WSDATA
OP:WSSTAT
RLS:WSPOS-A
RLS:WSPOS-B
RLS:WSTST
SET:PB
SET:WSDGTL
SET:WSFREQ
SET:WSOPD
SET:WSPHONE
SET:WSPOS
STP:WSTST
TST:WSAUTO
TST:WSCPE
TST:WSDGTL
TST:WSMEAS
TST:WSMET
TST:WSMNTR
TST:WSSEND
TST:WSSUPV-A
TST:WSSUPV-B

251. TRUNK EQUIPMENT NUMBER

ABT:TEN
ALW:HDW-TEN
DGN:TEN
EX:TEN

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INH:HDW-TEN
RMV:TEN
RST:TEN
STP:TEN

252. TRUNK GROUPS

ASGN:DPSCH
CLR:TRKDP
CLR:TRUNK
EXC:CCSXLATE
INH:PSLT
MON:TRUNK
OP:ACCH
OP:DOC
OP:PSLT
OP:TERACNTS-A
OP:TERACNTS-B
OP:TGCNT
OP:TRUNK
ORD:DLOOP-A
ORD:DLOOP-B
ORD:DLOOP-C
ORD:TONE-A
ORD:TONE-B
RLS:TRUNK
RMV:TRK-A
RMV:TRK-B
RST:TRK
STP:RST-TRK-A
STP:RST-TRK-B
VFY:MLHG

252.1 Trunk Group Controls

ALW:SSTR
ALW:TR
ASGN:SSTR
ASGN:TR-A
ASGN:TR-B
ASGN:TR-C
CLR:SSTR
CLR:SSTROVRD
CLR:TGC
CLR:TR
CLR:TROVRD
INH:SSTR
INH:TR
OP:SSTR
OP:TGC

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OP:TLPNOTE
OP:TR
SET:RR-A
SET:RR-B
SET:SSTROVRD
SET:TGC-A
SET:TGC-B
SET:TGC-C
SET:TROVRD
STP:NMOP

253. TRUNK TESTING

EXC:CCS
EXC:CCSCQ
INH:CCSCQ
OP:CCSCQ
ORD:TRK-A
ORD:TRK-B
STP:CCSCQ
STP:TST-DSL
STP:TST-MP
STP:TST-TRK
STP:TST-WLINE
TST:LNP
TST:TRK-A
TST:TRK-B
TST:TRK-C
TST:WLINE

254. TRUNK UNIT CHANNEL BOARD

ABT:TUCHBD
DGN:TUCHBD
RMV:TUCHBD
RST:TUCHBD
STP:TUCHBD

255. UMBILICAL

EXC:UCL
OP:UMBILMAP
RMV:UMBIL
RST:UMBIL
STP:UMBIL
TST:UMBIL

256. UNIVERSAL CONFERENCE CIRCUIT

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ABT:UCONF
ALW:HDW-UCONF
DGN:UCONF
EX:UCONF
INH:HDW-UCONF
RMV:UCONF
RST:UCONF
STP:UCONF

257. UNIVERSAL TONE

257.1 Universal Tone Decoder

ABT:UTD
ALW:HDW-UTD
DGN:UTD
EX:UTD
INH:HDW-UTD
RMV:UTD
RST:UTD
STP:UTD

258. \0\0\0Universal Tone Generator

ABT:UTG
ALW:HDW-UTG
DGN:UTG
EX:UTG
INH:HDW-UTG
RMV:UTG
RST:UTG
STP:UTG

259. UPDATES

IN:REMOTE-REPT
IN:REMOTE-START
IN:REMOTE-STOP
OP:G-READHDR
OP:G-READLOG
ST:UPDMHGTRKG
STOP:GEN
STP:EXC-UPD
STP:GEN
UPD:APPLY-BYTER-A
UPD:APPLY-BYTER-B
UPD:APPLY-BYTER-C
UPD:APPLY-BYTER-D

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UPD:APPLY-BYTER-E
UPD:APPLY-FILER-A
UPD:APPLY-FILER-B
UPD:APPLY-FILER-C
UPD:APPLY-FILER-D
UPD:APPLY-FILER-E
UPD:APPLY-FILER-F
UPD:APPLY-FUNCR-A
UPD:APPLY-FUNCR-B
UPD:APPLY-FUNCR-C
UPD:APPLY-FUNCR-D
UPD:APPLY-FUNCR-E
UPD:APPLY-UNIX-A
UPD:APPLY-UNIX-B
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED
UPD:BKOUT-A
UPD:BKOUT-B
UPD:BLDBOOT
UPD:BLOCK-A
UPD:BLOCK-B
UPD:BOLO
UPD:CCS-CUTOVER
UPD:CCS-PSUMOD
UPD:CLR-A
UPD:CLR-B
UPD:DISPLAY-A
UPD:DISPLAY-B
UPD:DUMPCORE-A
UPD:DUMPCORE-B
UPD:DUMPCORE-C
UPD:DUMPCORE-D
UPD:DUMPCORE-E
UPD:EXPAND
UPD:FTRC
UPD:G-APPLPROC
UPD:G-BACKOUT
UPD:G-BEGIN
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-END
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
UPD:G-SMBKOUT
UPD:G-SMSWITCH
UPD:G-SWITCHBCK
UPD:G-SWITCHFWD
UPD:G-TSM
UPD:GENP

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UPD:HSCHK-A
UPD:HSCHK-B
UPD:HSCHK-C
UPD:HSCHK-D
UPD:HSCHK-E
UPD:HSCHK-F
UPD:IMCAT
UPD:INITPW
UPD:INSTL
UPD:OFC-A
UPD:OFC-B
UPD:OMIT
UPD:PATCH
UPD:PERM-A
UPD:PERM-B
UPD:PMPPERF-A
UPD:PMPPERF-B
UPD:PMPPERF-C
UPD:PMPPERF-D
UPD:PMPPERF-E
UPD:PMPSTOP
UPD:PRINT
UPD:PSR
UPD:PUMPBWM-A
UPD:PUMPBWM-B
UPD:PUMPBWM-C
UPD:PUMPOFC-A
UPD:PUMPOFC-B
UPD:PUMPOFC-C
UPD:RCVRY-A
UPD:RCVRY-B
UPD:RCVRY-C
UPD:RCVRY-D
UPD:RCVRY-E
UPD:RCVRY-F
UPD:RDTA
UPD:REBOOT
UPD:RECOVERY
UPD:REDUCE
UPD:RESET
UPD:RESET-3B
UPD:SET
UPD:SKTMR
UPD:STOP-INSTL
UPD:STOP-SOAK
UPD:UPDCON
UPD:UPDDSPLY-A
UPD:UPDDSPLY-B
UPD:VERSION-A
UPD:VERSION-B
UPD:VFY-A
UPD:VFY-B

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UPD:VFYCON-A
UPD:VFYCON-B
UPD:VFYCON-C
UPD:VFYCON-D
UPD:VFYCON-E
UPD:VFYCON-F

260. USER LEVEL AUTOMATIC RESTART

INIT:ULARP
OP:ULARP-COM
OP:ULARP-EXEC
OP:ULARP-PROC

261. USER PART

OP:UPART

262. UTILITIES

ALW:UT-CMP
ALW:UT-MCTSI-PI
ALW:UT-PSUPH-A
ALW:UT-PSUPH-B
ALW:UT-SM
ALW:UTIL
ALW:UTILFLAG
CLR:UT-CMP
CLR:UT-MCTSI-PI
CLR:UT-PSUPH-A
CLR:UT-PSUPH-B
CLR:UT-SM
CLR:UTIL
CLR:UTILFLAG
COPY:UT-MCTSI-PI
COPY:UT-PSUPH-A
COPY:UT-PSUPH-B
COPY:UT-PSUPH-C
COPY:UT-SM-A
COPY:UT-SM-B
DUMP:UT-CMP-A
DUMP:UT-CMP-B
DUMP:UT-CMPMSG
DUMP:UT-DNUS
DUMP:UT-FPC
DUMP:UT-IDCU
DUMP:UT-IDCULSI
DUMP:UT-ISLUCC
DUMP:UT-MCTSI-MH

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DUMP:UT-MCTSI-PI-A
DUMP:UT-MCTSI-PI-B
DUMP:UT-MMP
DUMP:UT-MSGS
DUMP:UT-ONTC
DUMP:UT-PPC
DUMP:UT-PSUPH-A
DUMP:UT-PSUPH-B
DUMP:UT-PSUPH-C
DUMP:UT-QGP
DUMP:UT-SM-A
DUMP:UT-SM-B
DUMP:UT-SM-C
DUMP:UT-SYMID-A
DUMP:UT-SYMID-B
DUMP:UT-TMUX
ELSE:UT-CMP
ELSE:UT-MCTSI-PI
ELSE:UT-PSUPH-A
ELSE:UT-PSUPH-B
ELSE:UT-SM
END:UT-CMP
END:UT-MCTSI-PI
END:UT-PSUPH-A
END:UT-PSUPH-B
END:UT-SM
END:WHEN
EXC:UT-CMP
EXC:UT-CMPMSG
EXC:UT-DNUS
EXC:UT-FPC
EXC:UT-IDCU
EXC:UT-IDCULSI
EXC:UT-ISLUCC
EXC:UT-MCTSI-MH-A
EXC:UT-MCTSI-MH-B
EXC:UT-MCTSI-PI
EXC:UT-MMP
EXC:UT-MSGS
EXC:UT-ONTC
EXC:UT-PPC
EXC:UT-PSUCOM-A
EXC:UT-PSUCOM-B
EXC:UT-PSUPH-A
EXC:UT-PSUPH-B
EXC:UT-PSUPH-C
EXC:UT-QGP
EXC:UT-SM-A
EXC:UT-SM-B
EXC:UT-TMUX
IF:UT-CMP
IF:UT-CMP-ENDIF

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IF:UT-MCTSI-PE
IF:UT-MCTSI-PI
IF:UT-PSUPH-A
IF:UT-PSUPH-B
IF:UT-PSUPH-C
IF:UT-PSUPH-END-A
IF:UT-PSUPH-END-B
IF:UT-SM-A
IF:UT-SM-B
IF:UT-SM-ENDIF
INH:UT-CMP
INH:UT-MCTSI-PI
INH:UT-PSUPH-A
INH:UT-PSUPH-B
INH:UTIL
INH:UTILFLAG
LOAD:UT-CMP
LOAD:UT-CMPMSG
LOAD:UT-DNUS
LOAD:UT-FPC
LOAD:UT-IDCU
LOAD:UT-IDCULSI
LOAD:UT-ISLUCC
LOAD:UT-MCTSI-MH
LOAD:UT-MCTSI-PI
LOAD:UT-MMP
LOAD:UT-MSGS
LOAD:UT-ONTC
LOAD:UT-PPC
LOAD:UT-PSUPH-A
LOAD:UT-PSUPH-B
LOAD:UT-QGP
LOAD:UT-SM
LOAD:UT-TMS
LOAD:UT-TMUX
OP:UT-CMP
OP:UT-MCTSI-PI
OP:UT-PSUPH-A
OP:UT-PSUPH-B
OP:UT-SM
TRC:UTIL-A
TRC:UTIL-B
TRC:UTIL-C
TRC:UTIL-D
TRC:UTIL-E
WHEN:UT-CMP
WHEN:UT-MCTSI-PI
WHEN:UT-PSUPH-A
WHEN:UT-PSUPH-B
WHEN:UT-PSUPH-C
WHEN:UT-SM-A
WHEN:UT-SM-B

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263. UTILITY CALL TRACE

OP:CHANMAP-A
OP:CHANMAP-B

264. UTILITY VARIABLE

COPY:UVAR
DUMP:UVAR
LOAD:UVAR

265. VIRTUAL INPUT/OUTPUT PROCESSOR

RMV:VIOP
RST:VIOP

266. VIRTUAL NETWORK CONFERENCE RESOURCE

RMV:VNCR
RST:VNCR

267. VIRTUAL TELETYPEWRITER

RMV:VTTY
RMV:VTTYC
RST:VTTY
RST:VTTYC

268. VIRTUAL TRIBUTARY

ABT:VT15
RMV:VT15
RST:VT15
STP:VT15

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5. APPENDIXES

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APP:AUD-SDF

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX

AUDIT SPECIAL DEVICE FILES

Table 1: Special Device Files For FSCMPT

Special Device File	Generic Range
"/dev/bdb"	5E15 and later
"/dev/betc"	5E15 and later
"/dev/broot"	5E15 and later
"/dev/bwm"	5E15 and later
"/dev/cdmp"	5E15 and later
"/dev/db"	5E15 and later
"/dev/dg"	5E15 and later
"/dev/etc"	5E15 and later
"/dev/log"	5E15 and later
"/dev/mail"	5E15 and later
"/dev/no5aodd1"	5E15 and later
* "/dev/no5codd1"	5E15 and later
* "/dev/no5codd2"	5E15 and later
* "/dev/no5sodd1"	5E15 and later
* "/dev/no5sodd2"	5E15 and later
* "/dev/no5sodd3"	5E15 and later
* "/dev/no5sodd4"	5E15 and later
* "/dev/no5sodd5"	5E15 and later
* "/dev/no5sodd6"	5E15 and later
"/dev/no5text"	5E15 and later
"/dev/rclog"	5E15 and later
"/dev/root"	5E15 and later
* "/dev/smlog"	5E15 and later
"/dev/smtext"	5E15 and later
"/dev/tmp"	5E15 and later
"/dev/unixa"	5E15 and later
* "/dev/unixabf"	5E15 and later
* "/dev/updtmp"	5E15 and later
"/dev/usrtmp"	5E15 and later

* optional depending upon office configuration.

Table 2: Special Device Files For FSBLK and FSLINK

Special Device File	Member Number	Generic Range
"/dev/bdb"	1	5E15 and later
"/dev/betc"	1	5E15 and later
"/dev/broot"	1	5E15 and later
"/dev/bwm"	1	5E15 and later
"/dev/cdmp"	1	5E15 and later
"/dev/db"	1	5E15 and later
"/dev/dg"	1	5E15 and later
"/dev/etc"	1	5E15 and later
"/dev/log"	1	5E15 and later
"/dev/mail"	1	5E15 and later
"/dev/no5aodd1"	2	5E15 and later
* "/dev/no5codd1"	3	5E15 and later
* "/dev/no5codd2"	3	5E15 and later
* "/dev/no5sodd1"	3	5E15 and later
* "/dev/no5sodd2"	3	5E15 and later
* "/dev/no5sodd3"	3	5E15 and later

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* "/dev/no5sodd4"	3	5E15 and later
* "/dev/no5sodd5"	3	5E15 and later
* "/dev/no5sodd6"	3	5E15 and later
"/dev/no5text"	2	5E15 and later
"/dev/rclog"	1	5E15 and later
"/dev/root"	1	5E15 and later
* "/dev/smlog"	1	5E15 and later
"/dev/smtext"	1	5E15 and later
"/dev/tmp"	1	5E15 and later
"/dev/unixa"	1	5E15 and later
* "/dev/unixabf"	1	5E15 and later
* "/dev/updtmp"	1	5E15 and later
"/dev/usrtmp"	1	5E15 and later

* optional depending upon office configuration.

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APP:AUD

Software Release: 5E15 and later
Message Class: N/A
Application: 5,3B
Type: Input

1. APPENDIX: SYSTEM RESPONSES FOR AUDIT SYSTEM INPUT MESSAGES

Response	Message	Meaning
?D	EXTRA KEYWORD	Too many keywords in data field.
?D	INVALID CHARACTER	Member number given was not numeric.
?D	INVALID DATA, ERROR 101	Cannot specify a range of member numbers.
?D	INVALID DATA, ERROR 102	Only one member number allowed.
?D	INVALID DATA, ERROR 103	The record for the specified audit name and member number is not found in the equipment configuration database.
?D	INVALID DATA, ERROR 105	An instance can be associated with one and only one audit name and member number.
?D	INVALID DATA, ERROR 201	The data field must be empty.
?D	INVALID DATA, ERROR 202	Only one instance can be specified.
?D	INVALID DATA, ERROR 203	The record for the specified instance is not in the equipment configuration database for the given audit name and member number.
?D	INVALID DATA, ERROR 204	No additional data can be entered when ALL is used as an input to audit user input messages, such as ALW, INH, and OP, or when RUN is used with the OP:AUD input message.
?D	INVALID DATA, ERROR 501	Data string to AUD input message too long.
?D	INVALID DATA, ERROR 502	Data string for AUD input message should not have an argument.
?D	INVALID KEYWORD, ERROR 101	The audit name is too long.
?D	INVALID KEYWORD, ERROR 102	No records for specified audit name were found in the equipment configuration database.
?D	INVALID KEYWORD, ERROR 201	The keyword is not INS.
?D	INVALID KEYWORD, ERROR 501	The keyword is not PARAM.
?D	MISSING DATA, ERROR 101	No member number was given.
?D	MISSING DATA, ERROR 201	The INS keyword was entered but no instance name was specified.
?D	MISSING DATA, ERROR 501	The PARAM keyword was entered but no additional parameter string was specified.
?D	RANGE ERROR	Member number out of range.
?E	INPUT ERROR	The input message could not determine what action was requested.
?I	INCONSISTENT KEYWORDS	Conflicting action items.
?I	INVALID DATA, ERROR 101	Cannot specify a range.
?I	INVALID DATA, ERROR 102	Only one member number allowed.
?I	INVALID DATA, ERROR 103	The record for the specified audit name and member number is not found in the equipment configuration database.
?I	INVALID DATA, ERROR 201	The instance name is too long.
?I	INVALID DATA, ERROR 202	Only one instance can be specified.
?I	INVALID DATA, ERROR 203	The record for the specified instance is not in the equipment configuration database for the given audit name and member number.
?I	INVALID DATA, ERROR 301	First action option keyword must not have a keyword data field.
?I	INVALID DATA, ERROR 302	Second action option keyword must not have a keyword data field.
?I	INVALID DATA, ERROR 401	Keyword data cannot follow keyword AUD.
?I	EXTRA KEYWORD, ERROR 1	Too many action options.
?I	EXTRA KEYWORD, ERROR 2	The third identification field subfield must be empty.
?I	INVALID KEYWORD, ERROR 101	The audit name is too long.

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?I	INVALID KEYWORD, ERROR 201	The keyword is not INS.
?I	INVALID KEYWORD, ERROR 202	The keyword is invalid.
?I	INVALID KEYWORD, ERROR 203	The keyword RUN is valid only with the OP:AUD input message.
?I	INVALID KEYWORD, ERROR 301	The first action option is not valid.
?I	INVALID KEYWORD, ERROR 401	The second action option is not valid.
?I	INVALID KEYWORD, ERROR 501	ID keywords cannot follow AUD keyword.
?I	MISSING DATA, ERROR 101	No member number was given.
?I	MISSING DATA, ERROR 201	The INS keyword was entered but no instance name was specified.
?I	MISSING KEYWORD, ERROR 1	No audit name was given.
?I	MISSING KEYWORD, ERROR 2	The INS keyword (and its data) is missing.
?I	RANGE ERROR	Member number out of range.
NG	ALREADY ALLOWED, ERROR 1	All member numbers associated with the audit name are already allowed. At least one member must not be currently allowed for the ALW:AUD input message to be executed.
NG	ALREADY ALLOWED, ERROR 2	At least one of the specified members is already allowed. Use the OP:AUD input message to determine which members associated with the audit are currently allowed and which are not.
NG	ALREADY ALLOWED, ERROR 3	The instance of the audit is already allowed.
NG	ALREADY INHIBITED, ERROR 1	All the member numbers associated with the audit name are already inhibited. There must be at least one member number which is not inhibited.
NG	ALREADY INHIBITED, ERROR 2	At least one of the specified members is already inhibited. Use the OP:AUD input message to determine which members associated with the audit are currently inhibited and which are not.
NG	ALREADY INHIBITED, ERROR 3	The instance of the audit is already inhibited.
NG	NO CHANGE	No change.
NG	NOT MANUAL AUDIT	Not manual audit.
NG	NOT RUNNING	The audit specified to be stopped is not running.
RL	ALREADY RUNNING	The requested audit is already running.
RL	AUDIT BLOCKED	Audit blocked.
RL	AUDIT PROCESS NOT FULLY CREATED	Audit has not been dispatched yet. Retry STOP:AUD later.
RL	DIFFERENT MEMBER OF THIS AUDIT RUNNING	Another audit with the same name is already running. Only uniquely named audits are permitted to run at the same time. The OP:AUD input message may be used to obtain further information about currently running audits that may be preventing the initiation of the requested audit.

NOTE: If the following equipment configuration database error conditions continue, obtain technical assistance.

Response	Message	Meaning
RL	ECD INTERFACE ERROR 1	Cannot attach the segments of the equipment configuration database to the input message.
RL	ECD INTERFACE ERROR 2	Cannot connect to the equipment configuration database.
RL	ECD INTERFACE ERROR 3	Cannot read the equipment configuration database control record.
RL	ECD INTERFACE ERROR 4	Cannot open a sequence for all audits with the specified name.
RL	ECD INTERFACE ERROR 5	Error occurred while obtaining an audit record sequentially.
RL	ECD INTERFACE ERROR 6	Error occurred while obtaining an audit record by key.
RL	ECD INTERFACE ERROR 7	Error occurred while obtaining an instance record.
RL	ECD INTERFACE ERROR 8	Cannot read system integrity monitor (SIM) control record.
RL	MAXIMUM KERNEL AUDITS RUNNING	A kernel process is already running. Only one kernel process audit may be run at any one time. (It may have been initiated manually, or by a system process.)

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		The OP:AUD input message may be used to obtain further information about currently running audits that may be preventing the initiation of the requested audit.
RL	MAXIMUM SUPERVISOR AUDITS RUNNING	The maximum number of supervisor process audits is already running. (They may have been initiated manually, or by a system process.) This number is controlled by a parameter in the system integrity monitor control (SIMCNTL) record in the equipment configuration database (ECD). The OP:AUD input message may be used to obtain further information about currently running audits that may be preventing the initiation of the requested audit.
RL	RUNNING AUDIT, ERROR 6	The requested audit is already running.
RL	RUNNING AUDIT, ERROR 7	A kernel process audit is already running. Only one kernel process audit may run at any one time. (It may have been initiated manually or by a system process.) The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit.
RL	RUNNING AUDIT, ERROR 8	The maximum number of supervisor process audits is already running. (They may have been initiated manually or by a system process.) This number is controlled by a parameter in the SIMCNTL record in the ECD. The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit.
RL	RUNNING AUDIT, ERROR 11	Another audit with the same name is already running. Only uniquely named audits are permitted to run at the same time. The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit.
RL	SIM INTERFACE ERROR 3	Audit system initialization is in progress.
RL	SIM INTERFACE ERROR 4	Audit system initialization failed.
RL	SIM INTERFACE ERROR 5	SIM was unable to access an equipment configuration database record using a record identifier (RID) passed to it by the input message program.
RL	SIM INTERFACE ERROR 10	SIM failed to start the audit.
RL	SIM INTERFACE ERROR 15	System integrity output formatter is dead.
RL	SIM INTERFACE ERROR 19	An invalid record identifier (RID) was passed to SIM by the input message program.
RL	SIM INTERFACE ERROR 20	An invalid instance record identifier (RID) was passed to SIM by the input message program.
RL	SIM INTERFACE ERROR 23	Cannot stop a non-segmented audit.

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APP:CM-IM-REASON

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX

EXPLANATION OF NG RESPONSES APPENDIX

The following is a list of no good (NG) system responses that are used with many of the *5ESS®* switch input messages for communication module (CM) units. NG acknowledgements are used when the syntax of a message is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. Not all responses apply to all messages.

NG – ALL NOT VALID WITH A SINGLE UNIT = The ALL option was entered along with a single unit request, which is invalid.

NG – ATTEMPT TO ABORT OR STOP FAILED = A failure was encountered when trying to send an abort or stop request to another process. Try again later.

NG – ATTEMPT TO QUEUE OR SEND REQUEST FAILED = The request could not be put on the deferred maintenance queue, or a failure was encountered when trying to send the request.

NG – CM IS NOT ISOLATED FROM AM = The request has been denied because the CM was not isolated from the administrative module (AM) at the time of the request.

NG – CM ISOLATED FROM AM = The requested action cannot be performed because the CM has been manually isolated from the AM.

NG – COMMUNICATION MODULE VINTAGE MUST BE CM2 = The requested action has been denied because the communication module was an incorrect CM vintage.

NG – DEGROW OPTION NOT VALID FOR CM3 = The DEGROW option is no longer valid for the CM3 removal of a QGP or QLPS.

NG – DLI DOES NOT EXIST IN RSM = A message for a dual link interface (DLI) was entered, but the switching module (SM) type was found to be a remote switching module (RSM). No DLIs exist in an RSM.

NG – EX ALREADY QUEUED = An exercise (EX) START message was entered for unit on which an exercise is already running.

NG – EX INVALID FOR UNIT = An exercise (EX) was requested for a unit that an exercise cannot be run on. [Exercises can only be run on subunits; such as, they can be run on a module message processor (MMP), but not the entire message switch (MSGS).]

NG – EX NOT STARTED = An EX message (other than the START message) was entered for a unit on which there was no exercise previously running.

NG – FRC OPTION INVALID = The FORCE option no longer exists for the restore (RST) message.

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NG – GROWTH BOARD IN GROWTH STATE = A request was made for a module message processor (MMP), but because the MMP growth board is in the GROWTH state, the request could not be honored.

NG – HELPER OPTION INVALID FOR UNIT = The HELPER option was entered for an invalid unit.

NG – INHIBIT OR ALLOW REQUEST NOT VALID FOR THIS UNIT = An inhibit or allow request was made for a unit for which hardware checks cannot be inhibited or allowed.

NG – INVALID COMMAND OR MISSING OPTION = Either the message entered is invalid or no option was entered for a message where one of several options is required.

NG – INVALID DLI SIDE SPECIFIED = The dual link interface (DLI) side entered in the input message was not 0 or 1.

NG – INVALID HELPER SIDE SPECIFIED The HELPER side entered in the input message was not 0 or 1.

NG – INVALID MESSAGE OPTION = An invalid option was entered in the message. An example would be entering an unconditional (UCL) option on a RMV:MMP message.

NG – INVALID OPTION COMBINATION = Two options were entered together that don't make sense; for example, both MAJOR AND MINOR for an ONTC request.

NG – INVALID OR MISSING OPTION = No option was entered for a message that requires at least one of several options to be entered.

NG – INVALID RANGE = A request was entered with an invalid range, for example a range in decreasing order rather than increasing order.

NG – MAJOR OPTION INVALID FOR UNIT = The MAJOR option was entered for a unit other than the office network and timing complex (ONTC) or office network and timing complex common unit (ONTCCOM).

NG – MATE HELPER NOT IN SERVICE = A HELPER option was entered but the mate HELPER is not in service, therefore the request must be denied.

NG – NEED GROW OPTION FOR UNIT IN GROWTH STATE = The unit is in a growth or special growth state, and the GROW option was not used on the request.

NG – NEED GROW OPTION WHEN SM IS IN GROWTH STATE = All equipped SMs in the specified range are in the SGRO state, but no GROW option was used on the request.

NG – NO DLIs REQUESTED ARE EQUIPPED = No dual link interfaces (DLIs) in the range requested are equipped.

NG – NO HARDWARE CHECKS FOR CM1 MSCU = Messages to inhibit and allow hardware checks are not valid for a communication module model 1 (CM1) message switch control unit (MSCU).

NG – NO SMs REQUESTED ARE EQUIPPED = No switching modules (SMs) in the range requested are equipped.

NG – NO UNITs REQUESTED ARE EQUIPPED = No units in the range requested are equipped.

NG – NOT IN REQUESTED STATE = No units were found in the requested state.

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NG – OFFLINE PARTITIONS NOT MOUNTED = The request requires access to files on the offline disk but no offline disk partions are mounted.

NG – REMOVE REQUEST INVALID FOR TMSLNK = A remove is not a valid request for a TMSLNK.

NG – REQUEST ALREADY ACTIVE = A message was entered to stop or abort an action that is in an active state that cannot be stopped or aborted. An example of this is a remove request. Once it has been scheduled from the deferred maintenance queue (DMQ), it cannot be stopped.

NG – REQUEST CANNOT BE ABORTED OR STOPPED = A message was entered to stop or abort an action that is in a state where it cannot be stopped or aborted. An example of this is a remove request. Once it has been scheduled from the deferred maintenance queue (DMQ), it cannot be stopped.

NG – REQUEST INVALID FOR UNIT = An invalid request was made for the unit.

NG – REQUEST NOT FOUND ON CM DMQ = A stop or abort was entered, and the unit and action could not be found on the communication module deferred maintenance queue (DMQ). Use the OP:DMQ-CM-SM input message to check what is currently on the queue.

NG – REQUEST NOT VALID FOR CM3 = A command was entered which is not supported by offices having CM3 vintage communications modules. Commands to diagnose or exercise individual message switch subunits are not valid for CM3.

NG – RSMCL OPTION NOT VALID FOR CM3 = The RSMCL option is no longer valid for CM3. This option was previously used to select an MMP/SDLC for RSMs. For CM3, this option will now be handled automatically by Recent Change.

NG – STBY OPTION INVALID = The standby (STBY) option was entered for a unit that does not run active/standby.

NG – SWITCH INVALID ON UNIT TYPE = A request was made to switch a unit for which a switch request is not valid.

NG – TOO LATE TO ABORT OR STOP REQUEST = A request was made to stop or abort a diagnostic request after the diagnostic was completed but before it was removed from the deferred maintenance queue (DMQ).

NG – UCL OPTION INVALID = The unconditional (UCL) option is not valid on this type of request.

NG – UNIT HAS NO HDWCHK STATUS = An OP:HDWCHK request was made for a unit that hardware checks cannot be inhibited or allowed on.

NG – UNIT IN GROWTH STATE = The unit is in a growth or special growth state, and the GROWTH option was not used on the request.

NG – UNIT TYPE INCOMPATIBLE WITH NC TYPE = A request was made for a network clock subunit which is inconsistent with the type of clock equipped.

NG – UNIT UNEQUIPPED = The unit the message was entered for is not in an operational state.

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APP:COMMAND-GRP

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: COMMAND GROUPS

Command Group	Message ID
ADMIN	ABT:LIB
	CLR:LIB
	EXC:ENVIR-PROC
	EXC:ENVIR-UPROC
	LOAD:LIB
	OP:CONFIRM
	OP:LIB-DISK
	OP:LIB-STATUS
	SET:CONFIRM
	ST:LIB
	STP:LIB
	TELL:LIB
ALARM	ALW:ALM-A
	ALW:ALM-B
	CHG:ALM
	CLR:ALARMS
	CLR:FANALM
	CLR:FANALM-3B
	CLR:LAMPS
	CLR:OP-ALM-ALL
	INH:ALM
	INH:RBPSC-SM
	OP:ALM
	SET:ALMMDE
	STP:OP-ALM-ALL
	TST:ALM
AM	ALW:AUTOCFG
	ALW:SCSD
	CLR:IODRV
	DGN:CU
	DGN:DFC
	DGN:DUIC
	DGN:HSDC
	DGN:IOP
	DGN:MHD
	DGN:MT
	DGN:MTC
	DGN:MTTYC
	DGN:SCSDC
	DGN:SDLC
	DGN:TTYC
	EX:CU
	EX:DFC

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EX:DUIC
EX:HSDC
EX:LOOP
EX:IOP
EX:LDPARM
EX:MHD
EX:MT
EX:MTC
EX:MTTYC
EX:PAUSE
EX:STEP
EX:STOP
EX:SCSDC
EX:SDLC
EX:TTYC
INH:AUTOCFG
INH:SCSD
OP:ACT
OP:DFC-INFO-A
OP:DFC-INFO-B
OP:GROW
OP:INIT
OP:IODRV
OP:MHD-CFG
OP:MHD-INFO-A
OP:MHD-INFO-B
OP:MT-INFO-A
OP:MT-INFO-B
OP:OFL
OP:OOS
OP:SCSD
OP:STBY
OP:UNAV
OP:UNEQIP
ORD:SCSD
RMV:CU
RMV:DFC
RMV:DUI
RMV:DUIC
RMV:HSD
RMV:HSDC
RMV:IOP
RMV:MHD
RMV:MT
RMV:MTC
RMV:MTTY
RMV:MTTYC
RMV:ROP
RMV:SBUS
RMV:SCC
RMV:SCSDC
RMV:SDL

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	RMV:SDLC RMV:TTY RMV:TTYC RMV:VIOP RMV:VTTY RMV:VTTYC RST:CU RST:DFC RST:DUI RST:DUIC RST:HSD RST:HSDC RST:IOP RST:MHD RST:MT RST:MTC RST:MTTY RST:MTTYC RST:ROP RST:SBUS RST:SCC RST:SCSDC RST:SDL RST:SDLC RST:TTYC RST:VIOP RST:VTTY RST:VTTYC SET:IODRV SW:CU SW:MHD SW:PORTSW VFY:MHD
AMA	ABT:AMATAPE ALW:AMA-AUTOST ALW:AMA-SESSION ALW:AMAIRR ALW:AMALOST ALW:AMATRC ALW:CAMAONI CPY:AMATAPE INH:AMA-AUTOST INH:AMA-SESSION INH:AMAIRR INH:AMALOST INH:AMATRC INH:CAMAONI OP:AMA OP:AMA-CONFIG OP:AMA-CONTROLF OP:AMA-DISK OP:AMA-MAINT

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	OP:AMA-MAPS
	OP:AMA-SEQ
	OP:AMA-SESSION
	OP:AMA-STATUS
	OP:AMA-SUMMARY
	OP:AMA-TELE
	OP:AMAIRR
	OP:AMALOST
	OP:AMATRC
	SET:AMA-CONFIG
	SET:AMA-CONTROL
	SET:AMA-STREAM
	STP:AMATAPE
	VFY:AMATAPE
ASM	SW:ASM
AUDIT	ALW:AUD
	ALW:AUD-CMP
	ALW:AUD-ENV
	ALW:AUD-SM
	ALW:AUD-SODD
	ALW:CCSCQ
	AUD:CMP
	AUD:CNC
	AUD:CUMEM
	AUD:CUSTAT
	AUD:ECD
	AUD:ECDOWN
	AUD:ENV
	AUD:FMGR
	AUD:FSBLK
	AUD:FSCMPT
	AUD:FSLINK
	AUD:LKBDST
	AUD:MMGR
	AUD:MSGBUF
	AUD:NIDATA
	AUD:NMDATA
	AUD:NODEST
	AUD:PMS
	AUD:PROAD
	AUD:SM
	CLR:AUD
	EXC:AUD-SODD
	EXC:REMACS
	EXC:SODD-RED
	EXC:SODD-RED-OP
	EXC:SODD-STP
	INH:AUD
	INH:AUD-CMP
	INH:AUD-ENV
	INH:AUD-SM
	INH:AUD-SODD

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	OP:AUD
	OP:AUD-ERRLOG
	OP:AUD-SODD
	OP:AUDERR
	OP:ST-AUD-CMP-A
	OP:ST-AUD-CMP-B
	OP:ST-AUD-ENV-A
	OP:ST-AUD-ENV-B
	OP:ST-AUD-SM-A
	OP:ST-AUD-SM-B
	OP:ST-AUD-SODD
	OP:ST-ENV-AUD
	SCHED:AUD-SODD
	SET:AUD
	STOP:AUD
	STOP:AUD
	STP:AUD
	STP:AUD-CMP
	STP:AUD-ENV
	STP:AUD-SM
	STP:AUD-SODD
AUTH	ADD:PAUTH
	ADD:PCGRP
	ADD:PROFL
	ADD:TAUTH
	ADD:TCGRP
	CHG:PAUTH
	CHG:PROFL
	DEL:PAUTH
	DEL:PCGRP
	DEL:PROFL
	DEL:TAUTH
	DEL:TCGRP
	EXC:GRCPASSWORD
	GRC:PASSWORD
	OP:RCACCESS
	OP:RCSECGRP
	SET:RCACCESS
	SET:RCSECGRP
	VFY:AUTH
	VFY:PAUTH
	VFY:PCGRP
	VFY:PROFL
	VFY:TAUTH
	VFY:TCGRP
BHA	OP:BHA
	STP:BHA
BRCS	EXC:BRCS
	OP:BRCS-STATUS
	STP:BRCS
CCS	ALW:BICCCQ-A
	ALW:BICCCQ-B
	ALW:CCS-PSLT

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ALW:DLNHB
ALW:HBPRT
ALW:RTRACK
ALW:S7RPT
ALW:S7XCHK
ALW:TRACE
ALW:TRAP
CFR:RING
CHG:GEN
CHG:MRVT
CHG:SLK
CHG:SRVT
CLR:ASPTQ
CLR:BICCBMOVE
CLR:CCS-SRST
CLR:DSE
CLR:ISUP
CLR:SCMG
CLR:SRST-DPC
DGN:CU
DGN:LN
DGN:RPCN
DUMP:SMEAS
EX:CU
EX:LN
EX:LOOP
EX:PAUSE
EX:RPCN
EX:STEP
EX:STOP
EXC:BICCCQ
EXC:CCS
EXC:CCSCQ
EXC:CCSXLATE
EXC:DSTT
EXC:MRVT-PC
EXC:PMCCS
EXC:RG1AUD
EXC:RTRACK
EXC:S7RPT
EXC:S7XCHK
EXC:SRVT
INH:BICCCQ
INH:CCS-PSLT
INH:CCSCQ
INH:DLNHB
INH:HBPRT
INH:IMSMEAS
INH:PSLT
INH:REPORT
INH:RMV
INH:RTRACK

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	INH:S7RPT	
	INH:S7XCHK	
	INH:SLK	
	INH:TRACE	
	INH:TRAP	
	INIT:SCCP	
	LNUPD:LN	
	MON:SLK	
	OP:ASPTQ	
	OP:BICCBMOVE	
	OP:BICCCQ	
	OP:C7NET	
	OP:CCS-ACDPC	
	OP:CCS-ACTLK	
	OP:CCS-CLS	
	OP:CCS-DPCLS	
	OP:CCS-GSM	
	OP:CCS-LSCLS	
	OP:CCS-MON	
	OP:CCS-OPC	
	OP:CCS-ROUTE	
	OP:CCS-SCMG	
	OP:CCS-SLS	
	OP:CCS-TPC	
	OP:CCSCQ	
	OP:GSME	
	OP:HBPRT	
	OP:LNUPD	
	OP:NPMEM	
	OP:OFFNORM-QPHN	
	OP:PMCCS	
	OP:PSLT	
	OP:RG1AUD	
	OP:RING	
	OP:RTRACK	
	OP:S7RPT	
	OP:S7XCHK	
	OP:SCHD	
	OP:SLK	
	OP:SMR	
	OP:SNAT	
	OP:ST-APX	
	OP:ST-CCSLK	
	OP:ST-DSE	
	OP:ST-GSMNET	
	OP:ST-ISUP	
	OP:ST-MD	
	OP:ST-NGSMNET	
	OP:ST-QPHLNK	
	OP:ST-QPHPIPE	
	OP:TPC	
	OP:TRACE	

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OP:TRAP
REKEY:SLK
REPT:SLK
RMV:CCSLK-A
RMV:CCSLK-B
RMV:LN
RMV:MD
RMV:QPHPIPE
RMV:RPCN
RST:CCSLK
RST:LN
RST:MD
RST:QPHPIPE
RST:RPCN
SET:ASPTQ-A
SET:ASPTQ-B
SET:ASPTQ-C
SET:DSE
SET:ISUP
SET:S7RPT
SET:TRACE
SET:TRAP
SND:BICCMSG
STOP:LNUPD
STOP:RG1AUD
STOP:RTRACK
STOP:TRAP
STP:BICCBMOVE
STP:BICCCQ
STP:CCS-ROUTE
STP:PMCCS
STP:S7RPT
SW:CLOCK
SW:DLN
TST:ACPNUM
TST:AILS-OLS
TST:AILS-TCS
TST:ASP
TST:ASPTQ
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:CCS-GSMCFG
TST:CCSLK
TST:DLNHB
TST:E911
TST:GSMNET
TST:ICCV
TST:INWATS
TST:LAC

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	TST:LNP
	TST:MAPTQ-A
	TST:MAPTQ-B
	TST:NCD
	TST:NS800
	TST:OLNS
	TST:RATE
	TST:VFL
	UPD:CCS-CUTOVER
	UPD:CCS-PSUMOD
CM	ABT:CLNK
	ABT:CMP
	ABT:DLI
	ABT:FPC
	ABT:LI
	ABT:MI
	ABT:MICU
	ABT:MMP
	ABT:MSCU
	ABT:MSGS
	ABT:NC
	ABT:NLI
	ABT:ONTC
	ABT:ONTCCOM
	ABT:PPC
	ABT:QGP
	ABT:QLPS
	ABT:TMS
	ABT:TMSFP
	ALW:CLNORM
	ALW:HDW-CLNK
	ALW:HDW-CM
	ALW:HDW-CMP
	ALW:HDW-FPC
	ALW:HDW-MMP
	ALW:HDW-MSCU
	ALW:HDW-NCREF
	ALW:HDW-ONTC
	ALW:HDW-PPC
	ALW:HDW-QGP
	CLR:FRC-MSCU
	CLR:FRC-NCOSC
	CLR:FRC-ONTCCOM
	CLR:FRC-TRCU3
	DGN:CMP
	DGN:DLI
	DGN:FPC
	DGN:LI
	DGN:MI
	DGN:MICU
	DGN:MMP
	DGN:MSCU

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	DGN:MSGS	
	DGN:NC	
	DGN:NLI	
	DGN:ONTC	
	DGN:ONTCCOM	
	DGN:PPC	
	DGN:QGP	
	DGN:QLPS	
	DGN:TMS	
	DGN:TMSFP	
	DUMP:NC	
	DUMP:TMS-A	
	DUMP:TMS-B	
	EX:CMP	
	EX:DLI	
	EX:FPC	
	EX:LI	
	EX:MI	
	EX:MMP	
	EX:MSCU	
	EX:NC	
	EX:NLI	
	EX:PPC	
	EX:QGP	
	EX:QLPS	
	EX:TMS	
	INH:CLNORM	
	INH:HDW-CLNK	
	INH:HDW-CM	
	INH:HDW-CMP	
	INH:HDW-FPC	
	INH:HDW-MMP	
	INH:HDW-MSCU	
	INH:HDW-NCREF	
	INH:HDW-ONTC	
	INH:HDW-PPC	
	INH:HDW-QGP	
	INIT:CLNORM	
	OP:OFFNORM-CM	
	OP:ST-LI	
	OP:ST-MI	
	OP:VERS	
	RMV:CLNK	
	RMV:CMP	
	RMV:DLI	
	RMV:FPC	
	RMV:MMP	
	RMV:MSCU	
	RMV:MSGS	
	RMV:NCOSC	
	RMV:NCREF	
	RMV:NLI-A	

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RMV:NLI-B
RMV:ONTC
RMV:ONTCCOM
RMV:OSCXC
RMV:PPC
RMV:QGP
RMV:QLPS
RMV:TMSFP
RST:CLNK
RST:CMP
RST:DLI
RST:FPC
RST:MMP
RST:MSCU
RST:MSGS
RST:NCOSC
RST:NCREF
RST:NLI
RST:ONTC
RST:ONTCCOM
RST:OSCXC
RST:PPC
RST:QGL
RST:QGP
RST:QLPS
RST:QTMSLNK
RST:TMSFP
RST:TMSLNK-A
RST:TMSLNK-B
SET:FRC-MSCU
SET:FRC-NCOSC
SET:FRC-ONTCCOM
SET:FRC-TRCU3
SET:NC
STP:CMP
STP:DLI
STP:FPC
STP:LI
STP:MICU
STP:MMP
STP:MSCU
STP:MSGS
STP:NLI
STP:ONTCCOM
STP:OPUMP
STP:PPC
STP:QGP
STP:TMSFP
SW:CMP
SW:FPC
SW:NCOSC
SW:NCREF

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	SW:ONTC
	SW:PPC
	SW:QLPS
FHADM	ALW:AUTOBKUP
	ALW:CONFLOG
	ALW:FSYS-ACCESS
	ALW:FSYS-MOUNT
	ALW:FSYS-OWNER
	AUD:FILES
	CLR:BKUP
	CLR:FSYS-DIR
	CLR:FSYS-FILE
	CLR:MHD-MAEC
	CLR:PTN
	CMPR:DISK-CORE
	CMPR:MHD
	COPY:ACTDISK
	COPY:BKDISK-A
	COPY:BKDISK-B
	COPY:BKTAPE
	COPY:DIFF-SRC-MHD
	COPY:FSYS-CFILE
	COPY:FSYS-FILE
	COPY:LOG-TAPE
	COPY:OOSDISK
	COPY:PTN-ALL
	COPY:SPDISK
	COPY:TAPE-DATA
	COPY:TAPE-EMERDMP
	COPY:TAPE-IN
	COPY:TAPE-OUT
	COPY:TAPE-TEST
	DEL:FACR
	DEL:LOG
	DUMP:F-ALL
	DUMP:F-FORMAT
	DUMP:F-PARTL
	DUMP:MHD-BLOCK
	DUMP:MHD-DEFECT
	DUMP:MHD-VTOC
	EXC:FACR
	IN:F-APND
	IN:F-DEL
	IN:F-REPL
	IN:FSYS-DIR
	INH:AUTOBKUP
	INH:CONFLOG
	INH:FSYS-UMOUNT
	INIT:FACR-A
	INIT:FACR-B
	INIT:MHD
	LOAD:DFC-PUMP

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	LOAD:DFC-RAM LOAD:MHD LOAD:MHD-FIRMWARE OP:BKUP OP:DFCELOG OP:FACR OP:FNAME OP:GENBKUP-LAST OP:LOG OP:ST-DISKUSE OP:ST-FILESYS OP:ST-FREEDISK OP:ST-LISTDIR OP:ST-SUM RCV:M-RDLDFT RCV:M-VFYTXT REPT:SPACE SCHED:BKUP SCHED:FACR SET:BKUP STOP:BKDISK STOP:CMPR-MHD STOP:COPY-DIFF STP:AUTOBKUP STP:BKDISK STP:CMPR-MHD STP:COPY-DIFF STP:FACR UPD:HSCHK-A UPD:HSCHK-B UPD:HSCHK-C UPD:HSCHK-D UPD:HSCHK-E UPD:HSCHK-F VFY:FILE-A VFY:FILE-B VFY:TAPE
MAINT	ALW:BCI ALW:BREVC ALW:CPUQADM ALW:DMQ ALW:ECDAUD ALW:EON5REPT ALW:ESQREPT ALW:EXTPM ALW:MDII-A ALW:MDII-B ALW:RCLOG ALW:REX ALW:REX-CM-SM ALW:REX-UNIT ALW:SCORPT

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	ALW:TCLRPT	
	CHG:LPS-MSGCLS	
	CLR:ESA	
	CLR:HPRI	
	CLR:PSALNK	
	CLR:PSLNK-A	
	CLR:PSLNK-B	
	CLR:SIPDMP	
	COPY:ECD-TAPE	
	COPY:ODD-TAPE	
	EXC:ECDAUD	
	EXC:OFLBOOT	
	EXC:REX-CM-SM	
	EXC:SCHED	
	INH:BREVC	
	INH:DMQ	
	INH:ECDAUD	
	INH:EON5REPT	
	INH:ESQREPT	
	INH:EXTPM	
	INH:MDII-A	
	INH:MDII-B	
	INH:RCLOG	
	INH:REX	
	INH:REX-AM-SM	
	INH:REX-CM-SM	
	INH:REX-UNIT	
	INH:SCORPT	
	INH:TCLRPT	
	OP:APSSTAT	
	OP:ATMALM-A	
	OP:ATMALM-B	
	OP:ATMALM-C	
	OP:ATMALM-D	
	OP:BCI	
	OP:BREVC	
	OP:CA2IPMAP	
	OP:CFGSTAT-AM-A	
	OP:CFGSTAT-AM-B	
	OP:CFGSTAT-CM-A	
	OP:CFGSTAT-CM-B	
	OP:CFGSTAT-SM	
	OP:CONV-PHGRP	
	OP:CONV-PSALNK	
	OP:CONV-PSELNK	
	OP:CONV-PSLNK-A	
	OP:CONV-PSLNK-B	
	OP:CONV-PSLNK-C	
	OP:DMQ	
	OP:DMQ-CM-SM	
	OP:ECDAUD	
	OP:ESA	

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	OP:HPRI
	OP:ILHB
	OP:INVEN-A
	OP:INVEN-B
	OP:IPTRFC
	OP:LASSRQST
	OP:LIST-FLOWACT
	OP:MDII
	OP:MEMERRS
	OP:MEMSIZE
	OP:NBRLIST
	OP:NVMEM-PSUCOM-A
	OP:NVMEM-PSUCOM-B
	OP:NVMEM-PSUPH
	OP:OLHB
	OP:OMP
	OP:OUTCLS
	OP:OVRLD-AM-SM
	OP:QLPSTS
	OP:QNETSTAT
	OP:REX-CM-SM
	OP:REXINH
	OP:RTCD
	OP:SIPDMP
	OP:SMST
	OP:ST-ATMPVC
	OP:ST-PHGRP
	OP:ST-PORTS
	OP:ST-PROC
	OP:ST-PSALNK
	OP:ST-PSELNK
	OP:ST-PSLNK-A
	OP:ST-PSLNK-B
	OP:ST-SERV
	OP:ST-SIP
	OP:SYSSTAT
	OP:TAG
	OP:TLPNOTE
	OP:ULARP-COM
	OP:ULARP-EXEC
	OP:ULARP-PROC
	OP:VERSION
	QRY:CA2IPMAP
	QRY:NBRLIST
	RCV:M-FATLP
	RCV:M-IREX
	RCV:M-RTAG
	RLS:SMST
	RTE:SMST
	SCHED:ECDAUD
	SET:CLK-5
	SET:ESA

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	SET:HPRI SET:PSALNK SET:PSLNK-A SET:PSLNK-B STOP:DMQ STOP:ECDAUD STOP:OFLBOOT STP:BCI STP:CCSCQ STP:DMQ STP:MEMSIZE STP:REX-CM-SM STP:S7XCHK STP:ST-SIP SW:OFLBOOT SW:PHGRP SW:PSALNK SW:PSLNK-A SW:PSLNK-B SW:SERV TST:IPNET TST:PHPATH-A TST:PHPATH-B TST:PSLNK-A TST:PSLNK-B TST:PSLNK-C TST:PSLNK-D TST:PSLNK-E UPD:CA2IPMAP UPD:NBRLIST UPD:VERSION-A UPD:VERSION-B VFY:OFC-A VFY:OFC-B
MEAS	ALW:DCGRPT ALW:DRHR ALW:PLNT24-A ALW:PLNT24-B ALW:PLNTHR ALW:PM ALW:REORD-SM ALW:SRM-A ALW:SRM-B ALW:TRFC15 ALW:TRFC30-A ALW:TRFC30-B ALW:TRFC30-C INH:DRHR INH:PLNT24-A INH:PLNT24-B INH:PLNTHR INH:PM

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	INH:REORD
	INH:SRM
	INH:TRFC15
	INH:TRFC30-A
	INH:TRFC30-B
	OP:MEASIC
	OP:MEASTAT-A
	OP:MEASTAT-B
	OP:MEASTAT-MEM
	OP:PLNT24-A
	OP:PLNT24-B
	OP:PLNTHR
	OP:PLNTMO
	OP:PMCR
	OP:ST-PLNT24
	OP:ST-TRFC30
	OP:TRFC15
	OP:TRFC30
	REPT:PLNTHR
	STP:DCGRPT
MTCE	RMV:GQPHPIPE
	RST:GQPHPIPE
NA	APP:POINT-CODE
	TEST:FILE
NMOC	ALW:DOC
	ALW:DSILC
	ALW:ESP
	ALW:NMOUT-A
	ALW:NMOUT-B
	ALW:SSTR
	ALW:TR
	ASGN:DOC-A
	ASGN:DOC-B
	ASGN:DOC-C
	ASGN:DPSCH
	ASGN:MHTR
	ASGN:NMNODES
	ASGN:NMSCH
	ASGN:SILC
	ASGN:SSTR
	ASGN:TR-A
	ASGN:TR-B
	ASGN:TR-C
	CLR:ARC
	CLR:CGAP
	CLR:DCC
	CLR:DOC
	CLR:DSNM5
	CLR:M5-A
	CLR:M5-B
	CLR:MHTR
	CLR:NMNODES
	CLR:NMSCH

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	CLR:SILC CLR:SSTR CLR:SSTROVRD CLR:TGC CLR:TR CLR:TRKDP CLR:TROVRD INH:DOC INH:DSILC INH:ESP INH:NMOUT-A INH:NMOUT-B INH:SSTR INH:TR OP:ACCH OP:ACG OP:ARC OP:CGAP OP:DCC OP:DCOFC OP:DOC OP:DSNM5 OP:HTR OP:M5-A OP:M5-B OP:M5PKG OP:NMNODES OP:NMOUT OP:NMPGE OP:NMSCH OP:NMTHD OP:SILC OP:SSTR OP:TGC OP:TR SET:ARC SET:CGAP SET:DCC SET:DSNM5 SET:M5-A SET:M5-B SET:NMTHD SET:RR-A SET:RR-B SET:SSTROVRD SET:TGC-A SET:TGC-B SET:TGC-C SET:TROVRD STP:NMOP
NOCHK	ALW:HIST CLR:HIST

	CLR:PUPAGE EXC:PREV INH:HIST OP:ANITBL OP:CLK OP:HIST SET:PUPAGE
NPH	OP:NPH STP:NPH
ODD	ABT:GKCCR ABT:ODDBKUP ALW:CORC ALW:CORCLOG-SM ALW:GKCCR ALW:RC ALW:REORG ALW:TOD BKUP:ODD CLR:ODDBKUP CLR:TRN CNVT:STANDALONE EXC:GKCCR EXC:ODDRCVY EXC:RCDECODE EXC:REORG INH:CORC INH:CORCLOG-SM INH:GKCCR INH:RC INH:REORG INH:TOD OP:AVAILLOG OP:BKUPSTAT OP:CORCSTAT-SM OP:ODD-AM-SM OP:ODDWARN OP:RCSTAT-SM OP:RELSPACE SET:REORG ST:DBPROXY ST:MODGRW-RSM ST:NRODDGRW-A ST:NRODDGRW-B ST:ODDBST ST:ODDCREAT-SM ST:ODDRM-SM ST:ODDUPD ST:OVERLAY ST:RODDGRW ST:UODDGRW ST:UODDGRW-SM ST:UPDMHGTRKG

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	STP:ODDEVOL
ONTC	OP:TRCU
PASS	CHG:PSSWD
PCF	EXC:TRCRT
	OP:PCF-A
	OP:PCF-B
	STP:PCF
	STP:TRCRT
RCV	ABT:OFR
	ALW:ACSR
	ALW:RCDLY
	CLR:GRC
	DEL:ACSR
	DUMP:ACSR
	EXC:GRC
	EXC:RCRLS
	EXC:RCRMV
	GRC:CANCEL
	GRC:CONTINUE
	GRC:HALT
	GRC:REPORT
	GRC:RESCHED
	GRC:RMV
	GRC:TEST-NAME
	IN:OFR-PARM
	INH:ACSR
	INH:RCDLY
	OP:ACSR
	OP:OFR-CAT
	OP:OFR-FORM
	OP:OFR-STATUS
	OP:RCDLY
	OP:RCHIST
	OP:RCRLS
	OP:RCRMV
	OP:RCUSER
	OP:STAT
	RCV:APPTEXT
	REPT:GRC
	REPT:RCHIST
	RMV:GRC
	SCHED:GRC
	STP:GRC
	STP:OFR
	STP:RCHIST
	STP:RCRLS
	STP:RCRMV
	TST:GRC
	VFY:MLHG
SFTMGT	ACTV:OMDB
	APPLY:OMDB
	CLR:ACKDB
	CLR:AMA-MAPS

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CLR:IMCAT
CNVT:AMA-CONFIG
CNVT:CORCLOG
CNVT:RCLOG
EXC:CO
IN:REMOTE-REPT
IN:REMOTE-START
IN:REMOTE-STOP
OP:G-APPLLOG
OP:G-READHDR
OP:G-READLOG
OP:OMDB
OP:OPUMP
ST:OPUMP-CMP
ST:OPUMP-SM
STOP:EXC-ANY
STOP:EXC-USER
STOP:GEN
STP:EXC-ANY
STP:EXC-UPD
STP:EXC-USER
STP:GEN
STP:OPUMP-SM
UPD:APPLY-BYTER-A
UPD:APPLY-BYTER-B
UPD:APPLY-BYTER-C
UPD:APPLY-BYTER-D
UPD:APPLY-BYTER-E
UPD:APPLY-FILER-A
UPD:APPLY-FILER-B
UPD:APPLY-FILER-C
UPD:APPLY-FILER-D
UPD:APPLY-FILER-E
UPD:APPLY-FILER-F
UPD:APPLY-FUNCR-A
UPD:APPLY-FUNCR-B
UPD:APPLY-FUNCR-C
UPD:APPLY-FUNCR-D
UPD:APPLY-FUNCR-E
UPD:APPLY-UNIX-A
UPD:APPLY-UNIX-B
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED
UPD:BKOUT-A
UPD:BKOUT-B
UPD:BLDBOOT
UPD:BLOCK-A
UPD:BLOCK-B
UPD:BOLO
UPD:CLR-A

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	UPD:CLR-B	
	UPD:CSCANS-REPT	
	UPD:CSCANS-STOP	
	UPD:DISPLAY-A	
	UPD:DISPLAY-B	
	UPD:DSPKGDEPEND	
	UPD:EXPAND	
	UPD:FLASH	
	UPD:FLASH-DFC	
	UPD:G-APPLPROC	
	UPD:G-BACKOUT	
	UPD:G-BEGIN	
	UPD:G-COMMIT	
	UPD:G-CONTINUE	
	UPD:G-END	
	UPD:G-ENTER	
	UPD:G-PROCEED	
	UPD:G-RESTORE	
	UPD:G-SMBKOUT	
	UPD:G-SMSWITCH	
	UPD:G-SWITCHBCK	
	UPD:G-SWITCHFWD	
	UPD:G-TSM	
	UPD:GENP	
	UPD:IMCAT	
	UPD:INITPW	
	UPD:INSTL	
	UPD:OFC-A	
	UPD:OFC-B	
	UPD:OMDB	
	UPD:OMIT	
	UPD:PATCH	
	UPD:PERM-A	
	UPD:PERM-B	
	UPD:PMPPERF-A	
	UPD:PMPPERF-B	
	UPD:PMPPERF-C	
	UPD:PMPPERF-D	
	UPD:PMPPERF-E	
	UPD:PMPSTOP	
	UPD:PRINT	
	UPD:PSR	
	UPD:PUMPBWM-A	
	UPD:PUMPBWM-B	
	UPD:PUMPBWM-C	
	UPD:PUMPOFC-A	
	UPD:PUMPOFC-B	
	UPD:PUMPOFC-C	
	UPD:RCVRY-A	
	UPD:RCVRY-B	
	UPD:RCVRY-C	
	UPD:RCVRY-D	

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	UPD:RCVRY-E
	UPD:RCVRY-F
	UPD:REBOOT
	UPD:RECOVERY
	UPD:REDUCE
	UPD:RESET
	UPD:RESET-3B
	UPD:SET
	UPD:SKTMR
	UPD:STOP-INSTL
	UPD:STOP-SOAK
	UPD:UPDCON
	UPD:UPDDSPLY-A
	UPD:UPDDSPLY-B
	UPD:VFY-A
	UPD:VFY-B
	UPD:VFYCON-A
	UPD:VFYCON-B
	UPD:VFYCON-C
	UPD:VFYCON-D
	UPD:VFYCON-E
	UPD:VFYCON-F
	WRT:AMADATA
SFTUTIL	ALW:MON
	ALW:RUTIL
	ALW:RUTILFLAG
	ALW:UMEM
	ALW:UT-CMP
	ALW:UT-MCTSI-PI
	ALW:UT-PSUPH-A
	ALW:UT-PSUPH-B
	ALW:UT-SM
	ALW:UTIL
	ALW:UTILFLAG
	CLR:MON
	CLR:RUTIL
	CLR:RUTILFLAG
	CLR:UMEM
	CLR:UT-CMP
	CLR:UT-MCTSI-PI
	CLR:UT-PSUPH-A
	CLR:UT-PSUPH-B
	CLR:UT-SM
	CLR:UTIL
	CLR:UTILFLAG
	COPY:ADDR
	COPY:PID
	COPY:REG
	COPY:UID
	COPY:UT-CMP
	COPY:UT-MCTSI-PI
	COPY:UT-PSUPH-A

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COPY:UT-PSUPH-B
COPY:UT-PSUPH-C
COPY:UT-SM-A
COPY:UT-SM-B
COPY:UVAR
DUMP:ADDR
DUMP:CACHE
DUMP:KERN
DUMP:PID
DUMP:PMEM
DUMP:REG
DUMP:RUTIL
DUMP:UID
DUMP:UT-CMP-A
DUMP:UT-CMP-B
DUMP:UT-CMPMSG
DUMP:UT-FPC
DUMP:UT-IDCU
DUMP:UT-IDCULSI
DUMP:UT-ISLUCC
DUMP:UT-MCTSI-MH
DUMP:UT-MCTSI-PI-A
DUMP:UT-MCTSI-PI-B
DUMP:UT-MMP
DUMP:UT-MSGS
DUMP:UT-OFI
DUMP:UT-ONTC
DUMP:UT-PPC
DUMP:UT-PSUPH-A
DUMP:UT-PSUPH-B
DUMP:UT-PSUPH-C
DUMP:UT-QGP
DUMP:UT-SM-A
DUMP:UT-SM-B
DUMP:UT-SM-C
DUMP:UT-SYMID-A
DUMP:UT-SYMID-B
DUMP:UT-TMUX
DUMP:UVAR
ELSE:UT-CMP
ELSE:UT-MCTSI-PI
ELSE:UT-PSUPH-A
ELSE:UT-PSUPH-B
ELSE:UT-SM
END:UT-CMP
END:UT-MCTSI-PI
END:UT-PSUPH-A
END:UT-PSUPH-B
END:UT-SM
EXC:UT-CMP
EXC:UT-CMPMSG
EXC:UT-DNUS

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EXC:UT-FPC
EXC:UT-IDCU
EXC:UT-IDCULSI
EXC:UT-ISLUCC
EXC:UT-MCTSI-MH-A
EXC:UT-MCTSI-MH-B
EXC:UT-MCTSI-PI
EXC:UT-MMP
EXC:UT-MSGS
EXC:UT-OFI
EXC:UT-PPC
EXC:UT-PSUCOM-A
EXC:UT-PSUCOM-B
EXC:UT-PSUPH-A
EXC:UT-PSUPH-B
EXC:UT-PSUPH-C
EXC:UT-QGP
EXC:UT-SM-A
EXC:UT-SM-B
EXC:UT-TMUX
IF:UT-CMP
IF:UT-CMP-ENDIF
IF:UT-MCTSI-PE
IF:UT-MCTSI-PI
IF:UT-PSUPH-A
IF:UT-PSUPH-B
IF:UT-PSUPH-C
IF:UT-PSUPH-END-A
IF:UT-PSUPH-END-B
IF:UT-SM-A
IF:UT-SM-B
IF:UT-SM-ENDIF
IN:DTIME
INH:MON
INH:RUTIL
INH:RUTILFLAG
INH:UMEM
INH:UT-CMP
INH:UT-MCTSI-PI
INH:UT-PSUPH-A
INH:UT-PSUPH-B
INH:UT-SM
INH:UTIL
INH:UTILFLAG
INIT:UC
INIT:UMEM
LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:RUTIL
LOAD:UT-CMP
LOAD:UT-CMPMSG

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	LOAD:UT-DNUS LOAD:UT-FPC LOAD:UT-IDCU LOAD:UT-IDCULSI LOAD:UT-ISLUCC LOAD:UT-MCTSI-MH LOAD:UT-MCTSI-PI LOAD:UT-MMP LOAD:UT-MSGS LOAD:UT-OFI LOAD:UT-ONTC LOAD:UT-PPC LOAD:UT-PSUPH-A LOAD:UT-PSUPH-B LOAD:UT-QGP LOAD:UT-SM LOAD:UT-TMS LOAD:UT-TMUX LOAD:UVAR OP:MON-CTL OP:MON-DSP-A OP:MON-DSP-B OP:MON-DSP-C OP:MON-DSP-D OP:MON-PID OP:RUTIL OP:RUTILFLAG OP:UMEM OP:UT-CMP OP:UT-MCTSI-PI OP:UT-PSUPH-A OP:UT-PSUPH-B OP:UT-SM OP:UTIL SET:MON-CID SET:MON-DATA SET:MON-FCN SET:MON-SPEC SET:MON-WTD-A SET:MON-WTD-B SET:MON-WTD-C SET:MON-WTD-D STP:OP-MON UPD:DUMPCORE-A UPD:DUMPCORE-B UPD:DUMPCORE-C UPD:DUMPCORE-D UPD:DUMPCORE-E UPD:FTRC
SIP	OP:ST-GQPHLNK OP:ST-GQPHPIPE
SM	ABT:AIUCOM

ABT:AIULC
ABT:AIULP
ABT:AIUPIDB
ABT:AIURG
ABT:ALIT
ABT:ASC
ABT:BTSR
ABT:CDFI
ABT:CDI
ABT:DCLU
ABT:DCTUCOM
ABT:DCTUPORT
ABT:DFI
ABT:DFIH
ABT:DFTAC
ABT:DIST
ABT:DNUSCC
ABT:DNUSCD
ABT:DS1
ABT:DS1SFAC
ABT:EAN
ABT:FAC
ABT:GDSF
ABT:GDSUCOM
ABT:GDXACC
ABT:GDXC
ABT:GDXCON
ABT:GRID
ABT:GRIDBD
ABT:HDFI
ABT:IDCU
ABT:IDCUELI
ABT:IDCUPIDB
ABT:IFAC
ABT:ISLUCC
ABT:ISLUCD
ABT:ISLUHLSC
ABT:ISLULBD
ABT:ISLULC
ABT:ISLULCKT
ABT:ISLULG
ABT:ISLULGC
ABT:ISLUMAN
ABT:ISLUPIDB
ABT:ISLURG
ABT:ISTF
ABT:IWGFAC
ABT:IWGLI
ABT:IWUFAC
ABT:LDSF
ABT:LDSU
ABT:LDSUCOM

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ABT:LUCHAN
ABT:LUCHBD
ABT:LUCOMC
ABT:LUHLSC
ABT:MA
ABT:MAB
ABT:MCTSI
ABT:MSUCOM
ABT:MTB
ABT:MTIB
ABT:MTIBAX
ABT:OC3
ABT:OC3C
ABT:OFI
ABT:PAG
ABT:PCTDX
ABT:PLTLK
ABT:PMU
ABT:PPMTC
ABT:PPPLK
ABT:PROTO
ABT:PSUCOM-A
ABT:PSUCOM-B
ABT:PSUPH-A
ABT:PSUPH-B
ABT:PSUPIDB
ABT:RAF
ABT:RAU
ABT:RCL
ABT:RCLK
ABT:RCOSC
ABT:RCOXC
ABT:RCREF
ABT:RCXC
ABT:RDFI
ABT:RLI
ABT:RMV-RT
ABT:RRCLK
ABT:RST-RT
ABT:RVPT
ABT:SAS
ABT:SCAN
ABT:SDFI
ABT:SFI
ABT:SLIM
ABT:STS1
ABT:STS3C
ABT:TAC
ABT:TEN
ABT:TMUX
ABT:TRIB
ABT:TSESS

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	ABT:TST-LEN ABT:TTFCOM ABT:TUCHBD ABT:UCONF ABT:UTD ABT:UTG ABT:VT15 ALW:HDW-AIU ALW:HDW-CDFI ALW:HDW-CDI ALW:HDW-DCLU ALW:HDW-DCTUCOM ALW:HDW-DFI ALW:HDW-DFIH ALW:HDW-DNUSCC ALW:HDW-DNUSCD ALW:HDW-GDSF ALW:HDW-GDSUCOM ALW:HDW-GDXACC ALW:HDW-GDXCON ALW:HDW-GRID ALW:HDW-GRIDBD ALW:HDW-HDFI ALW:HDW-IDCU ALW:HDW-IDCUELI ALW:HDW-IFAC ALW:HDW-ISLU ALW:HDW-ISLUCC ALW:HDW-ISLUCD ALW:HDW-ISLUHLSC ALW:HDW-ISLUMAN ALW:HDW-ISLURG ALW:HDW-ISTF ALW:HDW-IWGLI ALW:HDW-LDSF ALW:HDW-LDSU ALW:HDW-LDSUCOM ALW:HDW-LUCHAN ALW:HDW-LUCOMC ALW:HDW-LUHLSC ALW:HDW-MCTSI-A ALW:HDW-MCTSI-B ALW:HDW-MSUCOM ALW:HDW-OFI ALW:HDW-PCTDX ALW:HDW-PLTLK ALW:HDW-PSUCOM-A ALW:HDW-PSUCOM-B ALW:HDW-PSUPH-A ALW:HDW-PSUPH-B ALW:HDW-RAF ALW:HDW-RCL	

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	ALW:HDW-RCLK
	ALW:HDW-RCOSC
	ALW:HDW-RCOXC
	ALW:HDW-RCREF
	ALW:HDW-RCXC
	ALW:HDW-RDFI
	ALW:HDW-RLI
	ALW:HDW-RRCLK
	ALW:HDW-RVPT
	ALW:HDW-SAS
	ALW:HDW-SDFI
	ALW:HDW-SFI
	ALW:HDW-SM
	ALW:HDW-TAC
	ALW:HDW-TEN
	ALW:HDW-TMUX
	ALW:HDW-TTFCOM
	ALW:HDW-UCONF
	ALW:HDW-UTD
	ALW:HDW-UTG
	ALW:RT-FAC
	ALW:RT-PROV-REPT
	ALW:RT-REPT
	ALW:TSESS
	CFR:PMEM
	CFR:RTBM
	CFR:SAMEM
	CFR:SPRMEM-A
	CFR:SPRMEM-B
	CFR:SPRMEM-C
	CFR:SPRMEM-D
	CFR:SPRMEM-E
	CFR:SPRMEM-F
	CFR:SPRMEM-G
	CLR:MCTSI
	CLR:MELNK
	CLR:OC3
SMA	EX:UCONF
SPECRCV	RCV:DMTECD-RC
	RCV:DMTECD-VFY
	RCV:DMTSG-RC
	RCV:DMTSG-VFY
	RCV:M-ACCED
	RCV:M-APPRC
	RCV:M-BKUPCHK
	RCV:M-BROWSE
	RCV:M-CNIDBOC
	RCV:M-CNIGROWTH
	RCV:M-COMPAREDB
	RCV:M-CREATEECD
	RCV:M-CREATESG
	RCV:M-EVOL

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	RCV:M-FDIFF RCV:M-GENBKUP RCV:M-KEYCMP RCV:M-KEYCOMM RCV:M-KEYS RCV:M-LOADF3B RCV:M-NEWDB RCV:M-ODBE RCV:M-PRINTDB RCV:M-PRINTFRM RCV:M-RCVECD RCV:M-RCVSG RCV:M-SCREEN RCV:M-SH RCV:M-TRANSGEN RCV:M-TREEBLD RCV:M-VFYDFLT
SYSRCVY	ALW:CALLMON ALW:EAIINT ALW:ERRCHK ALW:ERRINT ALW:ERRSRC ALW:HDWCHK ALW:PUMP ALW:SFTCHK ALW:SFTCHK-SM CHG:MSGCNTL CHG:PRNTMODE-A CHG:PRNTMODE-B CLR:BACKOUT CLR:CALLMON CLR:EMERDMP CLR:ESM CLR:ISOL-CM CLR:ISOL-SM CLR:MINMODE-CNI CLR:MINMODE-SM FRMV:LN INH:CALLMON INH:EAIINT INH:ERRCHK INH:ERRINT INH:ERRSRC INH:HDWCHK INH:PUMP-SM INH:SFTCHK INH:SFTCHK-SM INIT:AM-FPI INIT:AM-SPP INIT:CM INIT:CMP INIT:CMP-SPP

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	INIT:CNI INIT:DLN INIT:DLN-SPP-PID INIT:DSL INIT:DSNPAGE INIT:LN INIT:SM-A INIT:SM-B INIT:SM-SPP INIT:ULARP OP:CALLMON OP:EMERSTAT OP:ERRCHK OP:FMCON OP:FMVER OP:HISTORY-A OP:HISTORY-B OP:HISTORY-C OP:PERF OP:PM-PP-MCTSI OP:PM-SM OP:POSTMORT-A OP:POSTMORT-B OP:POSTMORT-CMP OP:ST ORD:CPI RLS:PM-PP-MCTSI RLS:PM-SM RLS:POSTMORT RST:PERF RTR:CALLMON SET:BACKOUT SET:CALLMON SET:ISOL-CM SET:ISOL-SM SET:MINMODE-CNI SET:MINMODE-SM STP:PERF
TRACE	OP:CHANMAP-A OP:CHANMAP-B OP:CLID OP:COT-STATUS OP:DIGTRC OP:RTITRC OP:TRC SET:COT TRC:CLID TRC:IPCT TRC:UTIL-A TRC:UTIL-B TRC:UTIL-C TRC:UTIL-D

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	TRC:UTIL-E
TRFM	BKUP:TRFM
TRK	ALW:S7ACK
	INH:S7ACK
	OP:S7ACK
TRKLN	ABT:OTO
	ABT:TASK
	ABT:TASK-TLWS
	ALW:ALE-A
	ALW:ALE-B
	ALW:DEBUG
	ALW:FAC-A
	ALW:FAC-B
	ALW:FAC-C
	ALW:HWGRD
	ALW:MISMATCH
	ALW:PCTF
	ALW:RPC
	ALW:RTMTBOVR
	ALW:RTMTBPRT
	ALW:TFTP
	ASGN:TESTSET
	CLR:MWI
	CLR:PB
	CLR:TRUNK
	CLR:UPART
	CLR:WSDGTL
	CLR:WSFREQ
	CLR:WSOPD
	CONN:WSIC
	CONN:WSJACK
	CONN:WSLINE
	CONN:WSPHONE
	CONN:WSPORT-A
	CONN:WSPORT-B
	CONN:WSTRK-A
	CONN:WSTRK-B
	CONN:WSTRK-C
	DISC:WSLINE
	DISC:WSPHONE
	DISC:WSPORT-A
	DISC:WSPORT-B
	DISC:WSTRK
	EX:OTO
	EXC:ALE-A
	EXC:ALE-B
	EXC:BICCBMOVE
	EXC:LIT
	EXC:PING-A
	EXC:PING-B
	EXC:PM-A
	EXC:PM-B
	EXC:PM-C

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EXC:PM-D
EXC:RDTA-A
EXC:RDTA-B
EXC:RT-PROV
INH:ALE-A
INH:ALE-B
INH:DEBUG
INH:FAC-A
INH:FAC-B
INH:FAC-C
INH:HWGRD
INH:MISMATCH
INH:PCTF
INH:RPC
INH:RTMTBOVR
INH:RTMTBPRT
INH:TFTP
INIT:FAC-A
INIT:FAC-B
INIT:FAC-C
INIT:SC
MON:TRUNK
OP:ALE-A
OP:ALE-B
OP:AML
OP:APT
OP:BICC
OP:BICCBLK
OP:CAMPON-A
OP:CAMPON-B
OP:CONV-A
OP:CONV-B
OP:CPE
OP:DATALINK
OP:DEBUG
OP:FAC-A
OP:FAC-B
OP:FAC-C
OP:IPCFG
OP:IPCON
OP:JOBSTATUS-A
OP:JOBSTATUS-B
OP:LIST-A
OP:LIST-B
OP:LIST-ISMNAIL-A
OP:LIST-ISMNAIL-B
OP:LISTOTO
OP:LIT
OP:NETSTAT
OP:OFFNORM-IS
OP:OFFNORM-PRI
OP:OSPS

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OP:PB
OP:PCTF
OP:PM
OP:PSC
OP:PTRC-A
OP:PTRC-B
OP:PTRC-STSFAC
OP:RDTA-A
OP:RDTA-B
OP:RPC-SM
OP:RPCU
OP:RT-PROV
OP:SCF
OP:SS7
OP:ST-ISMNAIL
OP:ST-ISMTS
OP:ST-PSUCOM
OP:STATUS-A
OP:STATUS-B
OP:STATUS-PS
OP:TCPIP-ARPDMP
OP:TCPIP-RTDMP
OP:TERACNTS-A
OP:TERACNTS-B
OP:TESTSET
OP:TFTP
OP:TGCNT
OP:TRUNK
OP:UPART
OP:WCPE
OP:WSDATA
OP:WSSTAT
ORD:DLOOP-A
ORD:DLOOP-B
ORD:DLOOP-C
ORD:SCAN-A
ORD:SCAN-B
ORD:TONE-A
ORD:TONE-B
ORD:TRK-A
ORD:TRK-B
RLS:TESTSET
RLS:TRUNK
RLS:WSPOS-A
RLS:WSPOS-B
RLS:WSTST
RMV:BICCCADN
RMV:CPE
RMV:DATALINK
RMV:ISMNAIL
RMV:LINE
RMV:OSPSPORT

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	RMV:TRK-A RMV:TRK-B RST:BICCCADN RST:CPE RST:DATALINK RST:ISMNAIL RST:LINE RST:OSPSPORT RST:TRK SCHED:APT SET:MWI SET:PB SET:WSDGTL SET:WSFREQ SET:WSOPD SET:WSPHONE SET:WSPOS STP:ALE STP:APT STP:BICC STP:CAMP STP:CAMPON-A STP:CAMPON-B STP:IPCFG STP:ISMNAIL STP:LIST STP:LISTOTO STP:PCTF STP:PM-A STP:PM-B STP:RDTA STP:RPCU STP:RST-TRK-A STP:RST-TRK-B STP:SS7 STP:TST-DSL STP:TST-ELS STP:TST-LEN STP:TST-MP STP:TST-PATH-A STP:TST-PATH-B STP:TST-PATH-C STP:TST-TRK STP:TST-WLINE STP:WSTST TST:DSL TST:LINE-ELS TST:MP TST:OSPS

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APP:DIG-TESTS

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. APPENDIX: DIGITAL TESTS

Table 1 TYPES OF DIGITAL TESTS

Test Type	Measurement	Ideal Level	Remarks
LBK	Bit error rate Error free blocks	0.00E 00 errors per bit	Non-inverting test line at far end
LBKCSU	Bit error rate Error free blocks	0.00E 00 errors per bit	Packet switched trunks only
LBKINV	Bit error rate Error free blocks	0.00E 00 errors per bit	Inverting test line at far end
LBKOCU	Bit error rate Error free blocks	0.00E 00 errors per bit	Packet switched trunks only
MANSCRE	Bit error rate Error free blocks	0.00E 00 errors per bit	Manually initiated non-inverting loopback at far end
SHCT	Bit error rate Error free blocks	0.00E 00 errors per bit	Speech handler para>trunks only

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APP:E-CONF-POKES

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: ENHANCED CONFIRMATION PROMPT POKE NUMBERS

This appendix is a list of Master Control Center (MCC) page and poke numbers for enhanced confirmation prompt.

Page Number	Poke Number	Valid Pokes
1180	200	For all valid 2XX pokes on the 1180-1185 pages. (5E15 only)
1180	200	For all valid 2XX pokes [5E16(1)+]
1181	200	-
1182	200	-
1183	200	-
1184	200	-
1185	200	-
1186	420,421	-
1187	50000	For all valid 50XXX pokes
1187	51000	For all valid 51XXX pokes
1187	52000	For all valid 52XXX pokes
1190	400,401	-
1209	400,401	-
1210	400,401	-
1220	400,401	-
1240	400	-
1250	401	-
1380	2200	For all valid 22XX pokes (5E15+)
1380	2700	For all valid 27XX pokes (5E15+)
1381	2200	For all valid 22XX pokes (5E15+)
1381	2700	For all valid 27XX pokes (5E15+)
1510	200,201	(5E15+) -
1510	2100	For all valid 21XX pokes (5E15+)
1510	2200	For all valid 22XX pokes (5E15+)
1511	2000	(5E15+) -
1511	2111	For all valid 21XX pokes (5E15+)
1511	2211	For all valid 22XX pokes (5E15+)
1532	2001	For all valid 2XXX pokes
1533	200	(5E15+) -
1533	6200	For all valid 62XX pokes (5E15+)
1800	403,411,420,421	-
1800	511	-
1800	920,921,922,923,924	-
1850	920,922,923	-
1950	9900	-

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APP:KEY-ID

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. KEY ID APPENDIX

A "*" in the key ID field represents a secondary key. To request the form with this key, the other key ID associated with this form is required to be entered.

Form	Key ID	Key Meaning
5050	none	-
5051	none	-
5052	none	-
5053	none	-
5054	none	-
5055	none	-
5056	none	-
5057	none	-
5070	SM	SM number or range of numbers.
5071	none	-
5072	none	-
5073	TN	Telephone number or range of numbers.
5073	NPA	Numbering Plan Area.
5074	none	-
5075	none	-
5076	none	-
5103	none	-
5104	MLHG	Multi-line hunt group number or range of numbers.
5105	none	-
5106	SM	Switching module number or range of numbers.
5107	SM	SM number or range of numbers.
5108	SM	SM number or range of numbers.
5109	TN	Telephone number or range of numbers.
5109	NPA	Numbering Plan Area.
5110	MLHG	Multi-line hunt group number or range of numbers.
5111	MLHG	Multi-line hunt group number or range of numbers.
5111A	MLHG	Multi-line hunt group number or range of numbers.
5112	TN	Telephone number or range of numbers.
5112	NPA	Numbering Plan Area.
5113	MLHG	Multi-line hunt group number or range of numbers.
5114	none	-
5115	OFFCOD	Office code or range of office codes.
5115A	SM	SM number or range of numbers.
5117	TN	Telephone number or range of numbers.
5117	NPA	Numbering Plan Area.
5119	MLHG	Multi-line hunt group number or range of numbers.
5120	none	-
5121	TN	Telephone number or range of numbers.
5121	NPA	Numbering Plan Area.
5122	MLGH	Multi-line hunt group number or range of numbers.
5123	TN	Telephone number or range of numbers.
5123	NPA	Numbering Plan Area.
5124	MLGH	Multi-line hunt group number or range of numbers.
5171	SM	SM number or range of numbers.
5174	SM	SM number or range of numbers.
5200	TGN	Trunk group number or range of numbers.
5202	TGN	Trunk group number or range of numbers.
5203	TRANCL	Transmission class number or range of numbers.
5204	TG	Trunk group number or range of numbers.
5205	TG	Trunk group number or range of numbers.
5206	TG	Trunk group number or range of numbers.
5207	SM	SM number or range of numbers.
5209	none	-

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5210	TG	Trunk group number or range of numbers.
5211	none	-
5212	none	-
5213	TGN	Trunk group number or range of numbers.
5214	none	-
5215	none	-
5216	TG	Trunk group number or range of numbers.
5217	none	-
5218	BICCGRP	Bearer independent connection control group.
5219	TGN	Trunk group number or range of numbers.
5220	none	-
5221	BICCGRP	Bearer independent connection control group.
5222	BICCGRP	Bearer independent connection control group.
52711	SM	SM number or range of numbers.
52712	SM	SM number or range of numbers.
52713	SM	SM number or range of numbers.
52714	SM	SM number or range of numbers.
52715	SM	SM number or range of numbers.
52716	SM	SM number or range of numbers.
52717	SM	SM number or range of numbers.
52718	none	-
52719	none	-
527110	SM	SM number or range of numbers.
527111	SM	(5E16+) SM number or range of numbers.
5275	TGN	Trunk group number or range of numbers.
53001	none	-
53002	none	-
53003	LDIT	Local digit interpreter table number or range of numbers.
53003	*DIGSTR	A directory number, or a string of up to 15 characters.
53004	none	-
53005	LDIT	Local digit interpreter table number or range of numbers.
53006	none	-
53007	RDIT	Remaining digit interpreter table.
53008	RDIT	Remaining digit interpreter table.
5301	SCRNIDX	Screening index number or range of numbers.
53011	none	-
53021	CHGIDX	Charge index number or range of numbers.
53023	none	-
53024	none	-
53025	none	-
5303	RTIDX	Route index number or range of numbers.
5304	none	-
5305	none	-
5306	none	-
5307	none	-
5308	none	-
5309	INDIT	Incoming digit number or range of numbers.
5309	*DIGSTR	A directory number, or a string of up to 15 characters.
5311	none	-
5312	none	-
5313	none	-
5315	LDIT	Local digit interpreter table number or range of numbers.
5316	CC	Country code.
5317	IIDIG	Information digits.
5318	PCCCC	Paired country code to country code value.
5319	BILLNPA	Special access billing numbering plan area (NPA).
5320	NPA	Special access far end NPA.
5322	none	-
5323	none	-
5324	none	-
5325	none	-
5327	RTIDX	Route index number or range of numbers.
5328	none	-
5400	none	-
5401	POSNUM	Position number or range of numbers.
5402	none	-
5403	ID	Operator ID or range of operator IDs.
5404	none	-
5405	none	-

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5406	none	-
5407	none	-
5408	none	-
5409	RESXDLIDX	Restricted external dialing index or range of indices.
5410	none	-
5411	none	-
5412A	none	-
5412B	none	-
5412C	none	-
5412D	none	-
5412E	none	-
5412F	none	-
5413	none	-
5414	none	-
5415	none	-
5416	none	-
5417	TG	Trunk group number or range of numbers.
5418	none	-
5419	none	-
5420	none	-
5421	none	-
5422	none	-
5423	none	-
5424	none	-
5425	none	-
5426	none	-
5427	none	-
5428	none	-
5429	none	-
5430	none	-
5431	none	-
5433	none	-
5434	none	-
5435	none	-
5436	none	-
5437	none	-
5438	none	-
5439	none	-
5440	none	-
5441	none	-
5442	none	-
5443	none	-
5444	none	-
5445	none	-
5446	none	-
5447	SM	SM number or range of numbers.
5448	none	-
5449	none	-
5450	none	-
5451	none	-
5452	none	-
5453	none	-
5454	none	-
5455A	none	-
5455B	none	-
5456A	none	-
5456B	none	-
5458	none	-
5459	none	-
5460	none	-
54611	none	-
54612	none	-
54613	none	-
54614	none	-
54621	none	-
54622	none	-
54623	none	-
5463	none	-
5464	none	-

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5465	none	-
5466	none	-
5467	none	-
5469	none	-
5470	none	-
5471	none	-
5472	none	-
5473	none	-
5474	none	-
5475	none	-
54771	none	-
54772	none	-
5478	none	-
5479	none	-
5480	none	-
5481	none	-
5482A	none	-
5482B	none	-
54831	none	-
54832	none	-
5484	none	-
5485	none	-
5486	none	-
5487	none	-
5488	none	-
5491	none	-
5492	none	-
5493	none	-
5494	none	-
5496	none	-
5497	none	-
5498	none	-
5499	none	-
5501	OFFCOD	Office code number or range of numbers.
5502	none	-
5503	none	-
5504	none	-
5505	none	-
5506	none	-
5507	none	-
5509	none	-
5510	SM	SM number or range of numbers.
5511	none	-
5512	none	-
5513	none	-
5514	SM	SM number or range of numbers.
5515	none	-
5516	none	-
5517	none	-
5518	none	-
5520	none	-
5522	none	-
5527	none	-
5529	none	-
5530	none	-
5531	none	-
5532	none	-
5533	none	-
5534	none	-
5535	none	-
5536	none	-
5537	none	-
5538	none	-
5539	none	-
5540	none	-
5541	none	-
5542	none	-
5543	none	-
5544	none	-

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5545	none	-
5546	none	-
5547	SM	SM number or range of numbers.
5548	none	-
5549	none	-
5550	none	-
5551	TN	Telephone number or range of numbers.
5551	NPA	Numbering Plan Area.
5551B	MLHG	Multi-line hunt group number or range of numbers.
5552	none	-
5553	SM	SM number or range of numbers.
5554	none	-
5555	none	-
5556	none	-
5557	none	-
5558	none	-
5559	none	-
5560	none	-
5561	none	-
5562	none	-
5563	none	-
5564	none	-
5565	TN	Telephone number or range of numbers.
5565	NPA	Numbering Plan Area.
5566	MLHG	Multi-line hunt group number or range of numbers.
5567	SM	SM number or range of numbers.
5568	none	-
5569	TG	Trunk group number or range of numbers.
5570	none	-
5571	RTIDX	Route index number or range of numbers.
5572	none	-
5573	TG	Trunk group number or range of numbers.
5574	RTIDX	Route index number or range of numbers.
5582	none	[5E16(1)+] -
5589	none	-
5592	none	[5E16(1)+] -
5600	none	-
5601	none	-
56011	IDPGRP	Individualized dialing plan (IDP) name string (only one IDP name).
56012	IDPGRP	IDP name string (only one IDP name).
560111	none	-
560112	GRPNAME	Group name string.
56013	none	-
56014	none	-
56015	none	-
56016	TN	Telephone number or range of numbers.
56016	NPA	Numbering Plan Area.
56017	MLHG	Multi-line hunt group number or range of numbers.
56018	TG	Trunk group number or range of numbers.
56021	none	-
56023	TN	Telephone number or range of numbers.
56023	NPA	Numbering Plan Area.
56024	MLHG	Multi-line hunt group number or range of numbers.
56025	TG	Trunk group number or range of numbers.
56031	none	-
56032	TN	Telephone number or range of numbers.
56032	NPA	Numbering Plan Area.
56033	MLHG	Multi-line hunt group number or range of numbers.
56034	TG	Trunk group number or range of numbers.
5604	none	-
56051	none	-
56052	none	-
56053	TN	Telephone number or range of numbers.
56053	NPA	Numbering Plan Area.
56054	MLHG	Multi-line hunt group number or range of numbers.
56061	none	-
56062	TN	Telephone number or range of numbers.
56062	NPA	Numbering Plan Area.

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56063	MLHG	Multi-line hunt group number or range of numbers.
56071	none	-
56073	TN	Telephone number or range of numbers.
56073	NPA	Numbering Plan Area.
56074	MLHG	Multi-line hunt group number or range of numbers.
56075	TG	Trunk group number or range of numbers.
56081A	none	-
560810	GRPNAME	Group name string (only one ARS group name).
560810	DPLAN	Dialing plan (both keys).
560811	none	-
560812	GRPNAME	Group name string.
560813	none	-
560814	none	-
56082	none	-
56083	TN	Telephone number or range of numbers.
56083	NPA	Numbering Plan Area.
56084	MLHG	Multi-line hunt group number or range of numbers.
56085	TG	Trunk group number or range of numbers.
56086	none	-
56087	none	-
56088	none	-
56089	none	-
56091	none	-
56092	none	-
56093	SFG	Simulated facility group number or range of numbers.
56094	none	-
56095	none	-
56096	TN	Telephone number or range of numbers.
56096	NPA	Numbering Plan Area.
56097	MLHG	Multi-line hunt group number or range of numbers.
56098	TG	Trunk group number or range of numbers.
56101	none	-
56102	GRPNAME	Group Name string
56103	TN	Telephone number or range of numbers.
56103	NPA	Numbering Plan Area.
56104	MLHG	Multi-line hunt group number or range of numbers.
56105	TG	Trunk group number or range of numbers.
5611	none	-
5612	MLHG	Multi-line hunt group number or range of numbers.
5613	SM	SM number or range of numbers.
56141	none	-
56143	TN	Telephone number or range of numbers.
56143	NPA	Numbering Plan Area.
56144	MLHG	Multi-line hunt group number or range of numbers.
56151	MSATTGP	Attendant group.
56151	MSCONFD	Constructed feature type group.
56151	MSIDGP	Individual dialing plan group.
56151	MSMLHGP	Multi-line hunt group.
56151	MSPFA	Private facilities access group.
56151	MSPPGP	Precedence and preemption group.
56151	MSQUEAN	Modular queuing group with announcements.
56151	MSQUEGP	Modular queuing group.
56151	MSTKQU	Trunk queuing group.
56151	MSTKQAN	Trunk queuing announcements.
56151	MSSFQU	SFG queuing group.
56151	MSSFQAN	SFG queue announcement groups.
56151	MSACSR	Automatic customer station rearrangement group.
56151	MSTERMGP	Terminal group.
56161	none	-
56162	TN	Telephone number or range of numbers.
56162	NPA	Numbering Plan Area.
56163	MLHG	Multi-line hunt group number or range of numbers.
56171	none	-
56173	none	-
56181	none	-
56182	none	-
56183	TN	Telephone number or range of numbers.
56183	NPA	Numbering Plan Area.
56184	MLHG	Multi-line hunt group number or range of numbers.

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56185	TG	Trunk group number or range of numbers.
56186	none	-
56187	RTIDX	Route index number or range of numbers.
56188	none	-
56189	none	-
56191	none	-
56192	none	-
56193	none	-
56194	GRPNAME	Group name string.
56195	TN	Telephone number or range of numbers.
56195	NPA	Numbering Plan Area.
56196	MLHG	Multi-line hunt group number or range of numbers.
56197	TG	Trunk group number or range of numbers.
56201	none	-
56202	none	-
56203	none	-
56204	none	-
56231	none	-
56232	none	-
56233	none	-
56234	TN	Telephone number or range of numbers.
56234	NPA	Numbering Plan Area.
56235	MLHG	Multi-line hunt group number or range of numbers.
56236	TG	Trunk group number or range of numbers.
56241	none	-
56242	none	-
56243	none	-
56244	TN	Telephone number or range of numbers.
56244	NPA	Numbering Plan Area.
56245	MLHG	Multi-line hunt group number or range of numbers.
56246	TG	Trunk group number or range of numbers.
56251	none	-
56271	none	-
56272	TN	Telephone number or range of numbers.
56272	NPA	Numbering Plan Area.
56273	MLHG	Multi-line hunt group number or range of numbers.
56274	TG	Trunk group number or range of numbers.
56275S	none	-
56275U	none	-
5628	none	-
56291	none	-
56292	none	-
56293	TN	Telephone number or range of numbers.
56293	NPA	Numbering Plan Area.
56294	MLHG	Multi-line hunt group number or range of numbers.
56301	none	-
56302	TN	Telephone number or range of numbers.
56302	NPA	Numbering Plan Area.
56303	MLHG	Multi-line hunt group number or range of numbers.
56304	none	-
5631	TN	Telephone number or range of numbers.
5631	NPA	Numbering Plan Area.
56321	none	-
56322	TN	Telephone number or range of numbers.
56322	NPA	Numbering Plan Area.
56323	MLHG	Multi-line hunt group number or range of numbers.
56324	TG	Trunk group number or range of numbers.
5633	none	-
5634	none	-
5637	none	-
5638	none	-
5639	none	-
5640	none	-
5641	none	-
5643	none	-
5644	none	-
5645	none	-
5646	none	-
5647	none	-

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5648	none	-
5649	TN	Telephone number or range of numbers.
5650	none	[5E16(1)+] -
5651	TN	[5E16(1)+] Telephone number or range of numbers.
5670	none	-
5701	none	-
5702	none	-
5703	none	-
5705	none	-
5707	none	-
5708	none	-
5709	SM	SM number or range of numbers.
57001	SM	SM number or range of numbers.
57101	SM	SM number or range of numbers.
57103	SM	SM number or range of numbers.
5711	none	-
5712	none	-
57131	none	-
57132	none	-
5720	SM	SM number or range of numbers.
57201	SM	SM number or range of numbers.
57202	SM	SM number or range of numbers.
5722	none	-
5723	none	-
5725	none	-
5726	none	-
5729	none	-
57301	SM	SM number or range of numbers.
57302	SM	SM number or range of numbers.
5731	SM	SM number or range of numbers.
57321	SM	SM number or range of numbers.
57322	SM	SM number or range of numbers.
5733	SM	SM number or range of numbers.
5735	none	-
57401	SM	SM number or range of numbers.
57402	SM	SM number or range of numbers.
57403	SM	SM number or range of numbers.
5741	SM	SM number or range of numbers.
5742	SM	SM number or range of numbers.
5743	none	-
5744	SM	SM number or range of numbers.
5745	SM	SM number or range of numbers.
5746	SM	SM number or range of numbers.
5750	SM	SM number or range of numbers.
57501	SM	SM number or range of numbers.
57502	SM	SM number or range of numbers.
5751	SM	SM number or range of numbers.
5752	SM	SM number or range of numbers.
5760	none	(5E16+) -
5761	none	(5E16+) -
5762	none	(5E16+) -
5763	none	(5E16+) -
5764	none	(5E16+) -
5765	none	(5E16+) -
5766	none	(5E16+) -
5767	none	-
5790	SM	SM number or range of numbers.
5810P	SM	SM number or range of numbers.
5810U	SM	SM number or range of numbers.
5811	none	-
5812	none	-
5814	SM	SM number or range of numbers.
5820	none	-
5821	SM	SM number or range of numbers.
5822	SM	SM number or range of numbers.
5823	SM	SM number or range of numbers.
5824	SM	SM number or range of numbers.
5825	SM	SM number or range of numbers.
5826	SM	SM number of range of numbers.

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5827	SM	SM number of range of numbers.
5840	none	-
5840A	none	-
5841	none	-
5841A	none	-
5842	none	-
5842A	none	-
5843A	SM	SM number or range of numbers.
5843B	SM	SM number or range of numbers.
5846	SM	SM number or range of numbers.
5847	SM	SM number or range of numbers.
5848	SM	SM number or range of numbers.
5849	SM	SM number or range of numbers.
5850	none	-
5851	none	-
5852	none	-
5853	none	-
5854	none	-
5855	none	-
5856	none	-
5857	SM	SM number or range of numbers.
5858	SM	SM number or range of numbers.
5859	SM	SM number or range of numbers.
5860	SM	SM number or range of numbers.
5861	SM	SM number or range of numbers.
5900	TN	Telephone number or range of numbers.
5900	NPA	Numbering Plan Area.
5900A	SM	SM number or range of numbers.
5901	MLHG	Multi-line hunt group number or range of numbers.
5902A	MLHG	Multi-line hunt group number or range of numbers.
5902B	TN	Telephone number or range of numbers.
5902B	NPA	Numbering Plan Area.
5902C	MLHG	Multi-line hunt group number or range of numbers.
5902D	TN	Telephone number or range of numbers.
5902D	NPA	Numbering Plan Area.
5903	none	-
5903A	none	-
5904	TN	Telephone number or range of numbers.
5904	NPA	Numbering Plan Area.
5904A	MLHG	Multi-line hunt group number or range of numbers.
5905	SM	SM number or range of numbers.
5906	SM	SM number or range of numbers.
5907A	SM	SM number or range of numbers.
5907B	none	-
5909	TN	Telephone number or range of numbers.
5909	NPA	Numbering Plan Area.
5909A	MLHG	Multi-line hunt group number or range of numbers.
5909B	SM	SM number or range of numbers.
5910A	none	-
5910B	none	-
5911	none	-
5911A	SM	SM number or range of numbers.
5911B	none	-
5912	TN	Telephone number or range of numbers.
5912	NPA	Numbering Plan Area.
5913	MLHG	Multi-line hunt group number or range of numbers.
5914	none	-
5915	SM	SM number or range of numbers.
5920	SM	SM number or range of numbers.
5921	none	-
5922	none	-
5923	none	-
5924	none	-
5924A	none	-
5925	TN	Telephone number or range of numbers.
5925	NPA	Numbering Plan Area.
5925A	none	-
5926	TG	Trunk group number or range of numbers.
5928	none	-

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5929	none	-
5930	none	-
5931	none	-
5932	none	-
5933	none	-
5940	none	-
5942	SM	SM number or range or numbers.
5944	none	-
5945	none	-
5946	none	-
5947	none	-
5948	none	-
5949	SM	SM number or range of numbers.
5950	none	-
5951	none	-
5952	SM	SM number or range of numbers.
5953	MLHG	Multi-line hunt group number or range of numbers.
5954	TN	Telephone number or range of numbers.
5954	NPA	Numbering Plan Area.
5955	MLHG	Multi-line hunt group number or range of numbers.
5956	TN	Telephone number or range of numbers.
5956	NPA	Numbering Plan Area.
5957	SM	SM number or range of numbers.
59591	none	-
59592	none	-
59593	TN	Telephone number or range of numbers.
59593	NPA	Numbering Plan Area.
59601	none	
59602	GRPNAME	Group name string.
59603	TN	Telephone number or range of numbers.
59603	NPA	Numbering Plan Area.
59611	none	-
59612	none	-
59613	TN	Telephone number or range of numbers.
59613	NPA	Numbering Plan Area.
59614	MLHG	Multi-line hunt group number or range of numbers.
59615	none	-
59621	none	-
59622	none	-
59623	TN	Telephone number or range of numbers.
59623	NPA	Numbering Plan Area.
59624	MLHG	Multi-line hunt group number or range of numbers.
59625	none	-
59626	none	-
5963	none	-
5964	none	-
5965	none	-
5966	none	-
59671	none	-
59672	none	-
59673	TN	Telephone number or range of numbers.
59673	NPA	Numbering Plan Area.
59674	MLHG	Multi-line hunt group number or range of numbers.
5968	none	-
5969	none	-
59701	none	-
59702	TN	Telephone number or range of numbers.
59702	NPA	Numbering Plan Area.
59703	MLHG	Multi-line hunt group number or range of numbers.
59711	none	-
59712	TN	Telephone number or range of numbers.
59712	NPA	Numbering Plan Area.
59713	MLHG	Multi-line hunt group number or range of numbers.
5972	none	-
5973	SM	SM number or range of numbers.
5974	none	-
5975	none	-
5976	none	-
5977	none	-

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5978	none	-
5979	none	-
5980	none	-
5981	TN	Telephone number or range of numbers.
5981	NPA	Numbering Plan Area.
5981A	MLHG	Multi-line hunt group number or range of numbers.
5982	none	-
5983	none	-
5984	none	-
5985	none	-
5986	TN	Telephone number or range of numbers.
5990	none	[5E16(1)+] -
5991	none	-
5992	none	(5E17+) -
5993	none	(5E17+) -
5995	none	(5E16+) -
59961	none	(5E16+) -
59962	none	(5E16+) -
5997	none	(5E16+) -
5998	none	(5E17+) -
6001	none	-
6002	none	-
6003	none	-
6004	none	-
6005	none	-
6006	none	-
6007	none	-
6008	none	-
6009	none	-
6010	none	-
6011	none	-
6012	none	-
6013	none	-
6014	none	-
6015	none	-
6016	none	[5E16(1)+] -
6017	none	[5E16(1)+] -
6018	SM	SM number or range of numbers.
6400	none	-
6402	none	-
6404	none	-
6406	none	-
6408	none	-
6409	none	-
6410	none	-
6411	none	-
6412	none	-
6413	none	-
6414	none	-
6415	none	-
6416	none	-
6417	none	-
6418	none	-
6419	none	-
6420	none	-
6421	none	-
6424	none	-
6425	none	-
6426	none	-
6427	none	-
6429	none	-
6430	none	-
6431	none	-
6432	none	-
6433	none	-
6434	none	-
6435	none	-
6441	none	-
6442	none	-

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6443	none	-

APP:MEM-NUM-AUD

Software Release: 5E15 and later
Message Class: N/A
Application: 5,3B
Type: Input

1. APPENDIX

Audit Name	Member Number	Audit Description
CNC	1	Critical node control.
CUMEM	1	Control unit memory comparison.
CUSTAT	1	Control unit hardware status.
ECD	1	Incore equipment configuration database (ECD) structure.
_	2	Disk ECD structure.
_	3	Incore ECD raw data.
ECDOWN	1	ECD record ownership.
FMGR	1	File manager task queue.
_	2	File manager incore inode table.
_	3	File manager hash table & inode pointer.
_	4	File manager file table.
_	5	File manager capability table.
_	6	File manager buffers.
_	7	File manager mount table.
_	8	File manager delayed queue.
_	9	File manager message queue.
FSBLK	1	File system block (all file systems).
FSCMPT	1	File system compaction (all file systems).
FSLINK	1	File system link (all file systems).
LKNODE	1	Link node data audit.
MMGR	1	Memory manager segment descriptor table.
_	2	Memory manager page tables.
_	3	Memory manager page descriptor table.
_	4	Memory manager segment release.
_	5	Memory manager segment unlock.
_	9	Memory manager swap space compaction.
MSGBUF	1	Message buffer queues.
_	2	Message buffer extenders.
NIDATA	1	Internal office identification data audit.
_	2	Internal link configuration data audit.
_	3	Internal logical-physical translation data audit.
_	4	Internal cluster/member data audit.
_	5	Internal subsystem information audit.
_	8	Internal global title translator data audit.
_	9	Internal network identifier routing data audit.
_	10	Internal protocol timers/parameters data audit.
NMDATA	1 or 2	Network management audit.
NODEST	1	Node state audit.
PMS	1	Plant measurements database integrity.
_	2	Plant measurements database recovery.
PROAD	1	Process administration.

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APP:MEM-NUM-CU

Software Release: 5E15 and later
Message Class: N/A
Application: 5,3B
Type: Input

1. APPENDIX: MEMBER NUMBERS

Administrative module (AM) Control Unit (CU) Subunit Names and Member Numbers

Subunit Name	Meaning	Allowed Member Numbers
CC	Central control unit.	0
CH	Channel	0 - 19.
CSU	Cache store unit.	0
DMA	Direct memory access unit.	0 or 1
MASC	Main store controller.	0 or 1
SAT	Store address translator.	0
UC	Utility circuit.	0

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APP:MEM-NUM-UNIT

Software Release: 5E15 and later
Message Class: N/A
Application: 5,3B
Type: Input

1. APPENDIX: MEMBER NUMBERS

Administrative Module (AM) Hardware Unit Names And Member Numbers

Unit Name	Meaning	*Allowed Member Numbers
CU	Control unit	0 or 1
DCI	Dual serial channel/computer interconnect	0 - 255
DFC	Disk file controller	0 - 7
DUI	Direct user interface	0 - 255
DUIC	DUI controller	0 - 255
HSD	High-speed synchronous data link	0 - 255
HSDC	HSD controller	0 - 255
IOP	Input/output processor	0 - 15
LN00	Link node (group 00)	1 - 6
LN32	Link node (group 32)	1 - 6
MHD	Moving head disk	0 - 255
MSGS	Message switch	0 or 1
MT	Magnetic tape drive	0 - 255
MTC	Magnetic tape controller	0 - 255
MTTY	Maintenance terminal	0 - 255
MTTYC	MTTY controller	0 - 255
RPCN00	Ring peripheral controller node (group 00)	0
RPCN32	Ring peripheral controller node (group 32)	0
ROP	Receive-only printer	0 - 255
SBUS	SCSI Bus	0 - 255
SCC	Switching control center data link	0 - 255
SCSDC	Scanner and signal distributor controller	0 - 255
SDL	Synchronous data link	0 - 255
SDLC	Synchronous data link controller	0 - 255
TTY	Terminal (other than MTTY)	0 - 255
TTYC	TTY controller (other than MTTYC)	0 - 255

* These represent the limits imposed by input messages. The actual member numbers of units in a administrative module (AM) computer system are defined in the equipment configuration data base for that system.

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APP:MSGTYPE

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. MESSAGE TYPE PARAMETER APPENDIX

If a particular parameter is not associated with a message type, an NA will be displayed in the first field for the parameter.

Some of the following message types have a limited set of parameters sent for event detection point request (EDP-R) messages as opposed to the full set for trigger detection point request (TDP-R) messages. In the following message types, the parameters that apply to the EDP-R are marked with an '*' to the right of the parameter. The rest of the parameters associated with the message type will not be included in the EDP-R messages whether populated or not. Also, note that for those message types that distinguish between EDP-R and TDP-R, the notification indicator parameter will only be part of the EDP-R and not the TDP-R.

Message Type	Parameters
ALL	All of the ASP 0.1B test query parameters.
CLOSE	• Advanced intelligence network maintenance parameter. • Bearer capability. • Close cause. • User ID.
INFOANAL	• Advanced intelligence network maintenance parameter. • Access code. • Bearer capability. • Called party ID. • Calling party ID. • Calling party business group ID. • Charge number. • Charge party station type. • Collected address information. • Collected digits. • Global title address. • Local access and transport area. • Original called party ID. • Origination point code. • Primary carrier. • Redirection information. • Redirecting party ID. • Timer. • Translation type. • Traveling class mark. • Trigger criteria type. • User ID. • Vertical service code.
INFOCOLL	• Advanced intelligence network maintenance parameter. • Access code.

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	• Bearer capability. • Calling party ID. • Charge number. • Charge party station type. • Collected address information. • Collected digits. • Extension parameters. • Generic address list. • Global title address. • Local access and transport area. • Original called party ID. • Origination point code. • Primary carrier. • Redirection information. • Redirecting party ID. • Timer. • Translation type. • Traveling class mark. • Trigger criteria type. • User ID. • Vertical service code.
NTWKBSY	• Advanced intelligence network maintenance parameter. * • Bearer capability. * • Called party ID. • Calling party ID. • Charge number. • Charge party station type. • Local access and transport area. • Notification indicator. * • Original called party ID. • Origination point code. • Primary carrier. • Redirecting party ID. • Redirection information. • Timer. • Traveling class mark. • Trigger criteria type. • User ID. *
OANSWER	• Advanced intelligence network maintenance parameter. • Bearer capability. • Notification indicator. • User ID.
OCLDPTYBSY	• Advanced intelligence network maintenance parameter. * • Bearer capability. * • Busy cause. * • Called party ID. • Calling party ID.

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	• Charge number. • Charge party station type. • Local access and transport area. • Notification indicator. * • Original called party ID. • Origination point code. • Primary carrier. • Redirecting party ID. • Redirection information. • Timer. • Trigger criteria type. • User ID. *
ODISCONNECT	• Advanced intelligence network maintenance parameter. • Bearer capability. • Disconnect cause. • Notification indicator. • User ID.
ODTMFENTRD	• Advanced intelligence network maintenance parameter. • Bearer capability. • DTMF digits detected. • Notification indicator. • User ID.
ONOANSWER	• Advanced intelligence network maintenance parameter. * • Bearer capability. * • Called party ID. • Calling party ID. • Charge number. • Charge party station type. • Local access and transport area. • Notification indicator. * • Original called party ID. • Origination point code. • Primary carrier. • Redirecting party ID. • Redirection information. • Timer. • Trigger criteria type. • User ID. *
ORIGAT	• Advanced intelligence network maintenance parameter. • Bearer capability. • Calling party ID. • Charge number. • Charge party station type. • Global title address. • Local access and transport area. • Origination point code. • Primary carrier.

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	• Timer. • Translation type. • Trigger criteria type. • User ID.
OTERMSZD	• Advanced intelligence network maintenance parameter. • Bearer capability. • Notification indicator. • User ID.
RESCLR	• Advanced intelligence network maintenance parameter. • AMA measurement. • Clear cause. • Collected address information. • Collected digits. • Failure cause. • Primary carrier. • Timer.
TANSWER	• Advanced intelligence network maintenance parameter. • Bearer capability. • Notification indicator. • User ID.
TBUSY	• Advanced intelligence network maintenance parameter. * • Bearer capability. * • Busy cause. * • Busy type. * • Called party ID. • Called party station type. • Calling party ID. • Charge number. • Charge party station type. • Generic name. • Local access and transport area. • Notification indicator. * • Original called party ID. • Origination point code. • Redirecting party ID. • Redirection information. • Timer. • Trigger criteria type. • User ID. *
TERMAT	• Advanced intelligence network maintenance parameter. • Bearer capability. • Called party ID. • Called party station type. • Calling party ID. • Charge number. • Charge party station type.

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	• Generic name. • Global title address. • Local access and transport area. • Original called party ID. • Origination point code. • Redirecting party ID. • Redirection information. • Timer. • Translation type. • Traveling class mark. • Trigger criteria type. • User ID.
TNOANSWER	• Advanced intelligence network maintenance parameter. * • Bearer capability. * • Called party ID. • Called party station type. • Calling party ID. • Charge number. • Charge party station type. • Generic name. • Local access and transport area. • Notification indicator. * • Original called party ID. • Origination point code. • Redirecting party ID. • Redirection information. • Timer. • Trigger criteria type. • User ID. *
TRMRSRCAVL	• Advanced intelligence network maintenance parameter. • Bearer capability. • Notification indicator. • User ID.

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APP:PID-AM-OKP

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: SYSTEM PIDs FOR OKP

PID	VALID RELEASE	DESCRIPTION
1	5E15 and later	OKP integrity control process
2	5E15 and later	Line insulation test process
4	5E15 and later	Cutover process
5	5E15 and later	Diagnostic supervisor time slot allocation control process
6	5E15 and later	Port status administrator
7	5E15 and later	Terminal maintenance error analysis
8	5E15 and later	Database logging system process
10	5E15 and later	Data delivery message control process
11	5E15 and later	Overload control CP system process
12	5E15 and later	Trunk line work station automatic administrator
13	5E15 and later	RSM call trace list periodic refresh
14	5E15 and later	ISDN automatic customer rearrangement process
15	5E15 and later	CM test process
16	5E15 and later	CTTU job administrator process
17	5E15 and later	Database local transaction manager
18	5E15 and later	CP carrier group alarm process
19	5E15 and later	EADAS high priority message response process
20	5E15 and later	Automatic trunk progression testing
21	5E15 and later	Elevated audits system process
22	5E15 and later	AMA data controller process
23	5E15 and later	Utility call trace capability
25	5E15 and later	Measurements user input message process
26	5E15 and later	Measurements report output control process
27	5E15 and later	EADAS low priority message response process
28	5E15 and later	System output controller process
29	5E15 and later	Port status out-of-service list coordinator
30	5E15 and later	Service evaluation central manager
31	5E15 and later	Data delivery deferred work scheduler
32	5E15 and later	CP routine exercise controller
34	5E15 and later	Controls interactive trunk and line maintenance tasks
35	5E15 and later	CP timing process
37	5E15 and later	Controls 100 second usage scanning
38	5E15 and later	Maintenance user input message handler
40	5E15 and later	Maintenance user output message handler
41	5E15 and later	Audits I/O communications process
43	5E15 and later	Maintains CCS signaling data consistency
44	5E15 and later	Integrity monitor process
45	5E15 and later	EDLCP/OSDS communication initialization process
46	5E15 and later	Supervisor for database roll forward
47	5E15 and later	Fast pump facility
55	5E15 and later	Maintains PSA, PST, and AML counts
60	5E15 and later	Network management control and administration
61	5E15 and later	Program update check patch count in PCB's
62	5E15 and later	Trunk error analysis process
64	5E15 and later	Routine audits system process
65	5E15 and later	MCC display page update process
69	5E15 and later	Network management system process
70	5E15 and later	Interprocessor data transport
71	5E15 and later	Receives MLT-2 messages
72	5E15 and later	Customer originated recent change administrator
73	5E15 and later	Time of day controller
76	5E15 and later	Provides CCS signaling message between switch and CNI ring
77	5E15 and later	Message broadcast capability
78	5E15 and later	Common channel signaling maintenance
79	5E15 and later	Group status administration process
80	5E15 and later	Handles request from EADAS for 5 minute NM report

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81	5E15 and later	CCS trunk group message handling
83	5E15 and later	OSPS common measurements administration
86	5E15 and later	RMS-D3 control process
91	5E15 and later	Controls attached processor communication and flow control
92	5E15 and later	Receives and prints error messages from DLN
93	5E15 and later	Provides handling for CCS direct signaling messages
97	5E15 and later	*Air Extension*^{SM} alarm message handling
99	5E15 and later	Controls protocol monitoring sessions
100	5E15 and later	Receives and responds to high priority messages from RNMS using EDLCP
101	5E15 and later	Receives and responds to medium priority messages from RNMS using EDLCP
102	5E15 and later	Receives and responds to low priority messages from RNMS using EDLCP
103	5E15 and later	Transfers segment name of shared data segment to EDLAP process
107	5E15 and later	Routing for call processing not handled by the CMP
126	5E15 and later	CCS call monitor system process

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APP:PID-AM-SMKP

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: SYSTEM PIDs FOR SMKP

PID	VALID RELEASE	DESCRIPTION
1	5E15 and later	SMKP integrity control process
2	5E15 and later	PPC configuration process
3	5E15 and later	MMP configuration process
4	5E15 and later	MSCU configuration process
5	5E15 and later	DLI configuration process
6	5E15 and later	MI configuration process
7	5E15 and later	Communication link configuration process
8	5E15 and later	Link interface configuration process
9	5E15 and later	FPC configuration process
10	5E15 and later	Network clock configuration process
11	5E15 and later	TMS configuration process
12	5E15 and later	Initialization fault recovery strategy process
13	5E15 and later	PPC error recognition process
14	5E15 and later	FPC error recognition process
15	5E15 and later	MMP error recognition process
16	5E15 and later	MSCU error recognition process
17	5E15 and later	Communication link error recognition process
18	5E15 and later	TMS/MICU error handler
19	5E15 and later	Interrupt inhibit and allow administrator
20	5E15 and later	Elevated audits process
21	5E15 and later	Initialization control process
22	5E15 and later	Routine audit process
23	5E15 and later	Communication link manual restart process
24	5E15 and later	Communication link normalization process
25	5E15 and later	Manual action strategy process
26	5E15 and later	Growth fault recovery strategy process
27	5E15 and later	System fault recovery strategy process
28	5E15 and later	TMS/MICU fault recovery strategy process
29	5E15 and later	Communication link analysis and recovery strategy process
30	5E15 and later	MSCU strategy process
31	5E15 and later	MMP strategy process
32	5E15 and later	FPC strategy process
33	5E15 and later	PPC strategy process
34	5E15 and later	AM system patch count check process
35	5E15 and later	PCB patch count check process
38	5E15 and later	General purpose secondary strategy process
39	5E15 and later	Force strategy process
40	5E15 and later	Integrity monitor process
41	5E15 and later	MSG communication test process
42	5E15 and later	Audits I/O communication process
43	5E15 and later	System time synchronization process
44	5E15 and later	Central processor intervention strategy process
45	5E15 and later	MCC display page update process
46	5E15 and later	PCD database update process
47	5E15 and later	Power switch monitor process
51	5E15 and later	CMP configuration process
52	5E15 and later	CMP error recognition process
53	5E15 and later	CMP strategy process

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APP:PID-CMP

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: SYSTEM PIDs FOR THE CMP

PID	VALID RELEASE	DESCRIPTION
1	5E15 and later	Module integrity control process
2	5E15 and later	High priority resident fault recovery
3	5E15 and later	Network control system process
9	5E15 and later	Data delivery system process
11	5E15 and later	Resource and real time overload monitoring
13	5E15 and later	Low priority resident fault recovery
17	5E15 and later	Database local transaction manager
19	5E15 and later	Generic utilities system process
21	5E15 and later	Elevated audits system process
24	5E15 and later	Database roll forward system process
28	5E15 and later	System output controller process
29	5E15 and later	10 second measurement scanning
30	5E15 and later	Scans OSPS ACD serving teams for spare capacity
31	5E15 and later	Automatic reconfiguration of OSPS operators
35	5E15 and later	System time synchronization process
37	5E15 and later	100 second measurement scanning
38	5E15 and later	Controlling and collecting of CMP measurements data
41	5E15 and later	Audit I/O communication process
43	5E15 and later	Maintains CCS signaling data consistency
44	5E15 and later	Integrity monitor system process
45	5E15 and later	Master system process for message handling
50	5E15 and later	Program update text and data overwrites
61	5E15 and later	Program update check patch count in PCB's
64	5E15 and later	Module routine audit process
66	5E15 and later	Routing and terminal allocation call processing
68	5E15 and later	Network control administration
72	5E15 and later	Customer originated recent change administrator
73	5E15 and later	Time of day controller
77	5E15 and later	Message broadcast capability
111	5E15 and later	Controls AP to SM communication
112	5E15 and later	ISDN DN busy indicator message handler
128	5E15 and later	Packet call processing system process

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APP:PID-SM

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX

PID	VALID RELEASE	DESCRIPTION
1	5E15 and later	Module integrity control process
2	5E15 and later	Background scheduler
3	5E15 and later	Light blinking process
4	5E15 and later	Maintenance resource administrator process
7	5E15 and later	Peripheral fault recovery test process
9	5E15 and later	Data delivery message control process
10	5E15 and later	Peripheral fault recovery control process
11	5E15 and later	Overload control process
12	5E15 and later	Remote module alarm process
13	5E15 and later	Mate memory exerciser control
14	5E15 and later	Routing and terminal allocation system process
16	5E15 and later	User initiated DCTU message buffer unloader
17	5E15 and later	Database tuple level access process
18	5E15 and later	Cutover system process
19	5E15 and later	Generic utilities process
20	5E15 and later	*SLC*® 96 maintenance task overseer
21	5E15 and later	Elevated audits process
22	5E15 and later	Port status out-of-service list generator
23	5E15 and later	Utility call trace process
24	5E15 and later	Module alarm process
25	5E15 and later	MSU signal distributor server process
26	5E15 and later	Port status administrator
27	5E15 and later	Error analysis administration process
28	5E15 and later	System output controller process
29	5E15 and later	Multiway supervisor process
30	5E15 and later	External Information System system process
31	5E15 and later	Module carrier group alarm process
32	5E15 and later	Call record assembler initialization control
33	5E15 and later	Administrative services test process
34	5E15 and later	AMA data controller process
35	5E15 and later	System time synchronization process
36	5E15 and later	10 second scanning control process for measurements
37	5E15 and later	100 second scanning control process for measurements
38	5E15 and later	Measurement collection controller
39	5E15 and later	Diagnostics paging supervisor
40	5E15 and later	Processes output requests
41	5E15 and later	Audits I/O communication process
42	5E15 and later	Library client supervisor
43	5E15 and later	SM routine exercise controller (REX)
44	5E15 and later	Integrity monitor system process
45	5E15 and later	OSDS master system process for message handling
46	5E15 and later	Scan/distribute point controller process
48	5E15 and later	Host SM DFI message handler
49	5E15 and later	Remote SM DFI message handler
50	5E15 and later	Text and data program update process
51	5E15 and later	Disk to core hashsum check process
53	5E15 and later	Out-of-service list unloader process
54	5E15 and later	IDCU TR303 RT provisioning (PVSP)
55	5E15 and later	EOC flow control timing system process
56	5E15 and later	MECCA service evaluation manager
58	5E15 and later	Remote supervisor process for diagnostics
59	5E15 and later	Hardware checks inhibit/allow process
60	5E15 and later	Peripheral circuit initialization process
61	5E15 and later	PCB patch count check process
64	5E15 and later	Module routine audit process

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65	5E15 and later	AM processor intervention polling process
66	5E15 and later	Local module routing system process
67	5E15 and later	Fast pump system process
68	5E15 and later	Retrofit off-line pump system process
69	5E15 and later	System process for automatic controls
70	5E15 and later	Interprocessor data transport process
71	5E15 and later	Network control system process (multiway calling)
72	5E15 and later	Customer originated recent change administrator
73	5E15 and later	Time of day controller
74	5E15 and later	Controls billing for call forwarding legs of a call
75	5E15 and later	Customer originated recent change logging
76	5E15 and later	Automatic call back calling feature
77	5E15 and later	Intra-cluster status transport process
78	5E15 and later	Operate DDL communication for multimodule RSM intra-cluster
80	5E15 and later	Maintenance and fault recovery of DDL communication links
81	5E15 and later	Terminal maintenance periodic task scheduler
82	5E15 and later	Maintenance of remote clock unit
83	5E15 and later	Distributed control of associate terminals
84	5E15 and later	Packet unloader for packet interface
87	5E15 and later	Relay CCS messages from AM to PSU using SM
91	5E15 and later	Integrated services port administration
92	5E15 and later	Nail-up system process
93	5E15 and later	Responsible for CCS message dispensing in the SM
94	5E15 and later	Maintenance request administrator input handler
95	5E15 and later	Maintenance request administrator output handler
96	5E15 and later	National ISDN-1 terminal init timers
97	5E15 and later	MCC page maintenance
101	5E15 and later	Controls CCS maintenance functions
102	5E15 and later	RISLU alarm administration
103	5E15 and later	Authorization code change and deletion handler
105	5E15 and later	Provides current information status for all OSPS OAPs
107	5E15 and later	RMS-D3 control process
108	5E15 and later	Data transport and user I/O for ISDN
109	5E15 and later	Automatic charge quotation service system process
110	5E15 and later	System process for real time rating system
111	5E15 and later	Control AP to SM communication on DSL line
112	5E15 and later	ISDN attendant DN busy indicator system process
113	5E15 and later	Inter-SM system process for support of nail-up network
114	5E15 and later	Control and collect AMA records from PH
115	5E15 and later	Receive and process messages from AP
116	5E15 and later	Monitor resource requests from TCAP process
117	5E15 and later	Network management manual code controls
122	5E15 and later	Software resource reporting tool
123	5E15 and later	TCAP message formatting and parsing
127	5E15 and later	Shared call system process for shared DN
128	5E15 and later	Packet routing system process for packet call processing
129	5E15 and later	Stress testing and verifying applications processor
130	5E15 and later	Performance and protocol monitoring
131	5E15 and later	Routine port conditioning
132	5E15 and later	Cyclic update for multi-line hunt group lamps
133	5E15 and later	Protocol error record handling
134	5E15 and later	Remote access system process
135	5E15 and later	ATS system process
136	5E15 and later	ACD/BRCS system process (ACDSP)
137	5E15 and later	Authentication center/home location register
138	5E15 and later	Access manager/visiting location register
144	5E15 and later	General purpose timer manager

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APP:POINT-CODE

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX

The following describes the destination point code (entered as DPC or DPCID in input messages) and origination point code (entered as OPC) input parameters are entered as 9-digit numbers of the form :

`aaabbcddd`

These parameters can be parsed into four possible formats.

The last format is used for CNI inter-module trunks (IMTs) and only applies to DPCs.

Format 1: *ANSI*® format

variable	value(s)
aaa	network (001-235, 237-253, 255)
bbc	cluster (000-255)
ddd	cluster member (000-255)

Format 2: AT&T format

variable	value(s)
aaa	network (254)
bb	cluster region (00-31)
c	cluster type (0-7)
ddd	cluster member (000-255)

Format 3: UNITEL format

variable	value(s)
aaa	network (236)
bb	cluster region (00-31)
c	cluster type (0-7)
ddd	cluster member (000-255)

Format 4: IMT format

variable	value(s)
aaa	network (000)
bbc	near SM number (1-192)
ddd	far SM number (1-192)

An OPC is entered based upon the value of its network. DPCs are entered based upon their own network and the network of their corresponding OPCs, as delineated in the table below:

DPC network	OPC uses Format 1	OPC uses Format 2	OPC uses Format 3
	network = 001-235, 237-253, 255	**network = 254**	**network = 236**
network=001-235, 237-253, 255	use Format 1	use Format 1	use Format 1
network = 254	use Format 1	use Format 2	use Format 1
network = 236	use Format 1	use Format 1	use Format 3
network = 0	use Format 4	use Format 4	use Format 4

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APP:RANGES

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: UNIT/EQUIPMENT RANGES FOR INPUT MESSAGES

This appendix is a list of units/equipment and the valid maximum range for use in input messages. This maximum may not coincide with the way that an individual switch is configured.

Access Interface Unit (AIU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
aiu	AIU	[0-7], with SM-2000 [0-42]
aiu	AIUCOM	[0-7],with SM-2000 [0-42]
aiu	AIULC	[0-7], with SM-2000 [0-42]
aiu	AIULP	[0-7], with SM-2000 [0-42]
aiu	AIURG	[0-7], with SM-2000 [0-42]
aiu	AIUTSGRP	[0-7],with SM-2000 [0-42]
aiu	AIUEN	[0-7], with SM-2000 [0-42]

Analog Line Card (ZLC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
zlc	ISLU-Z	[0-31]

Association

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
association	SCTP	[1-1023] (5E16(2)+)

Block Sequence Number (BLK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
blk	BLK	[1-999999]

Board (BRD)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
brd	ALINK	[0-1]
brd	ALIT	[0-31]
brd	DFTAC	[0-31]
brd	DIST	[0-31]
brd	GDXC	[0-31]
brd	GRIDBD	[0-1]
brd	HDFI	[0-7]
brd	LEN	[0-1]
brd	LUCHAN	[0-3]
brd	LUCHBD	[0-3]
brd	MA	[0-31]
brd	TEN	[0-7]
brd	TUCHBD	[0-7]

CC (Refer to: Common Controller)

CD (Refer to: Common Data)

Center

Unit/Equipment	When Used With	Valid Range(s)/Value(s)

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center	OAPF	[1-8]
center	OAPO	[1-32]

Channel

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
channel	DEN	[1-48]
channel	ILEN	[1-24] for PUB43801 facilities
channel	LUCHAN	[0-7]
channel	NEN	[1-24]
channel	OIUEN	[1-24]
channel	PLTEN	[1-24]
channel	PSUEN	[0-127] [0-767] (5E21(1)+)
channel	RAF	[0-31]
channel	SAS	[0-31]
channel	UEN	[0-127]

Channel Group (CHGRP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
chgrp	CHGRP	[0-15]
chgrp	PSUEN	[0-15]
chgrp	UEN	[0-15]

CHGRP (Refer to: Channel Group)

CIC (Refer to: Circuit Identification Code)

Circuit (CKT)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ckt	LUHLSC	[0-2]
ckt	PMU	[0-7]
ckt	RVPT	[0-7]
ckt	SCAN	[0-31]
ckt	SLIM	[0-31]
ckt	TEN	[0-3]
ckt	TTFCOM	[0-7]
ckt	UCONF	[0-7]
ckt	UTD	[0-7]
ckt	UTG	[0-7]

Circuit/Carrier Identification Code (CIC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
cic	SS7	[0-16382]
cic	BICC	[0-4294967294]

CKT (Refer to: Circuit)

Class

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
class	DEST	[0-255]

CLNK (Refer to: Communication Link)

Cluster (CLST)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
clst	DPC	[0-255]
clst	DPCID	[0-255]

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Cluster Member (CMBR)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
cmbr	DPC	[0-255]

Cluster Region (CRGN)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
crgn	DPC	[0-31]

Cluster Type (CTYP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ctyp	DPC	[0-7]

CMBR (Refer to: Cluster Member)

CMP (Refer to: Communication Module Processor)

COMDAC (Refer to: Common Data and Control Controller)

Common Controller (CC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
cc	DNUSCC	[0-1]
cc	ISLU	[0-1]
cc	ISLUCC	[0-1]

Common Data (CD)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
cd	DNUSCD	[0-1]
cd	ISLU	[0-1]
cd	ISLUCD	[0-1]

Common Data and Control Controller (COMDAC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
comdac	AIUCOM	[0-1]
comdac	AIURG	[0-1]
comdac	AIUTSGRP	[0-1]

Communication Link (CLNK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
clnk	CLNK	[0-1]

Communication Module Processor (CMP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
cmp	CMP	[0]

Concentrator

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
concentrator	LEN	[0-9] for LU3, [0-7] for LU2

Customer ID (CUSTID)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
custid	CUSTID	[1-999]

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CRGN (Refer to: Cluster Region)

CTYP (Refer to: Cluster Type)

Data Group (DG)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dg	DNUSCD	[0-1]
dg	DS1SFAC	[0-1]
dg	NEN	[0-1]
dg	SFI	[0-1]
dg	EC1STE	[0-1]
dg	STSFAC	[0-1]
dg	TMUX	[0-1]
dg	VT1FAC	[0-1]

DCHAN (Refer to: Digital Channel)

DCLU (Refer to: Digital Carrier Line Unit)

DCTU (Refer to: Directly Coupled Test Unit)

Destination Point Code (DPC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dpc	DPC	[1-254]

DFI (Refer to: Digital Facility Interface)

DG (Refer to: Data Group)

Digit Analysis Selector (DAS)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
das	DAS	[1-254]

Digital Carrier Line Unit (DCLU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dclu	DCLU	[0-15]
dclu	SDFI	[0-15]
dclu	SLEN	[0-15]

Digital Channel (DCHAN)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dchan	DEN	[1-48]

Digital Facility Interface (DFI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dfi	CDFI	[1-10]
dfi	DEN	[1-10]
dfi	DFI	[1-10]
dfi	DFIH	[1-16]
dfi	FAC	[1-10]
dfi	HDFI	[1-10]
dfi	RCL	[1-10]
dfi	RDFI	[1-10]

Digital Line and Trunk Unit (DLTU)

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Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dltu	CDFI	[0-11]
dltu	DEN	[0-11]
dltu	DFI	[0-11]
dltu	DFIH	[0-11]
dltu	FAC	[0-11]
dltu	RCL	[0-11]
dltu	RDFI	[0-11]

Digital Networking Unit - Synchronous Optical Network (DNUS)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dnus	DNUSCC	[0-7]
dnus	DNUSCD	[0-7]
dnus	DNUSEOC	[0-7]
dnus	DNUSTMC	[0-7]
dnus	DS1SFAC	[0-7]
dnus	INEN	[0-7]
dnus	NEN	[0-7]
dnus	SFI	[0-7]
dnus	EC1STE	[0-7]
dnus	STSFAC	[0-7]
dnus	TMUX	[0-7]
dnus	VT1FAC	[0-7]

Digital Signal Level 0 (DS0)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ds0	NEN	[1-24]
ds0	OIUEN	[1-24]

Digital Signal Level 1 (DS1)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ds1	DS1SFAC	[1-28]
ds1	ILEN	[51-90] for PUB43801 facilities

Directly Coupled Test Unit (DCTU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dctu	DCTUCOM	[0-7]
dctu	DCTUPORT	[0-7]
dctu	EAN	[0-7]
dctu	PMU	[0-7]

DLTU (Refer to: Digital Line and Trunk Unit)

DNUS (Refer to: Digital Networking Unit - Synchronous Optical Network)

DPC (Refer to: Destination Point Code)

DS0 (Refer to: Digital Signal Level 0)

DS1 (Refer to: Digital Signal Level 1)

Dual Link Interface (DLI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dli	DLI	[0-1]

Duration (DUR)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
dur	DUR	[1-86400]

EIS (Refer to: Expanded Inband Signaling)

Electrical Line Interface (ELI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
eli	IDCUELI	[0-1]

Embedded Operations Channel (EOC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
eoc	DNUSEOC	[0-1]
eoc	IDCUEOC	[0-1]

Expanded Inband Signaling (EIS)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
eis	EIS	[1-16]

Facility (FAC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
fac	FAC	[1-28,A,B,C,D,P][0-1]
fac	RCL	[0-1]

Foundation Peripheral Controller (FPC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
fpc	FPC	[0-1]

Gated Diode Crosspoint Grid (GRD)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
grd	ALINK	[0-9]
grd	GRID	[0-7]
grd	GRIDBD	[0-9]
grd	LEN	[0-9]

Global Digital Services Function (GDSF)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
gdsf	GDSF	[0-31]

Global Digital Service Unit (GDSU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
gdsu	GDSUCOM	[1-7]
gdsu	TTFCOM	[1-7]
gdsu	UCONF	[1-7]

Global Title Digits (GTD)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
gtd	DIGITS	[1-24]

Global Title Translation (GTT)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
gtt	GTT	[0-255]

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Group

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
group	AM	[0,32]
group	AP	[1-999]
group	AQ	[1]
group	AQM	[1]
group	BG	[7000-7999]
group	BICCG	[7000-7999]
group	DASC	[1-999]
group	DLN	[0,32] for CNI only
group	DSLGM	[0-95]
group	HOBICR	[1-999]
group	HOBICV	[1-999]
group	HOBIS	[1-999]
group	LINK	[0,32]
group	LINK	[1,2,33,34]
group	LN	[0,32]
group	LN	[1,2,33,34]
group	LNKR	[0,32]
group	LNKR	[1,2,33,34]
group	LNKLST	[0,32]
group	LNKLST	[1,2,33,34]
group	MISLNK	[1-999]
group	NODE	[0,32]
group	NODE	[1,2,33,34]
group	PORT	[1-999]
group	PSLT	[0,32]
group	PSLT	[1,2,33,34]
group	RAS	[1-999]
group	RPCN	[0,32]
group	RTRS	[1-999]
group	RUTIL	[0,32]
group	RUTIL	[1,2,33,34]
group	RUTILFLAG	[0,32]
group	RUTILFLAG	[1,2,33,34]
group	SLK	[0,32]
group	SLK	[1,2,33,34]
group	TEN	[0-7]
group	TG	[1-4000], for BICC [7000-7999]
group	TKGMN	[1-2000], for BICC [7000-7999]
group	XDB	[0-2001]

High Level Service Circuit (HLSC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
hlsc	ISLUHLSC	[0-2]

Host Switching Module (HSM)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
hsm	UMBIL	[1-192]

HSM (Refer to: Host Switching Module)

IDCU (Refer to: Integrated Digital Carrier Unit)

IDCU Facility (IFAC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ifac	IFAC	[0-39]

Index

Unit/Equipment	When Used With	Valid Range(s)/Value(s)

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index	PIDXMEM	[0-40959]
index	PIDXNM	[0-255]
index	PIDXPA	[0-255]
index	RTI	[1-4095]

Integrated Digital Carrier Unit (IDCU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
idcu	IDCUEOC	[0-7], with SM-2000 [0-42]
idcu	GEN	[0-7], with SM-2000 [0-42]
idcu	IDCU	[0-7], with SM-2000 [0-42]
idcu	IDCUELI	[0-7], with SM-2000 [0-42]
idcu	IDCUPIDB	[0-7], with SM-2000 [0-42]
idcu	IFAC	[0-7], with SM-2000 [0-42]
idcu	ILEN	[0-7], with SM-2000 [0-42]
idcu	MEN	[0-7], with SM-2000 [0-42]
idcu	IDCUTMC	[0-7], with SM-2000 [0-42]

Integrated Services Line Unit (Version 2) (ISLU/ISLU2)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
islu/islu2	ISDN	[0-7],with SM-2000 [0-42]
islu/islu2	ISLU	[0-7],with SM-2000 [0-42]
islu/islu2	ISLUCC	[0-7],with SM-2000 [0-42]
islu/islu2	ISLUCD	[0-7],with SM-2000 [0-42]
islu/islu2	ISLUHLSC	[0-7],with SM-2000 [0-42]
islu/islu2	ISLULBD	[0-7],with SM-2000 [0-42]
islu	ISLULC	[0-7]
islu/islu2	ISLULCKT	[0-7],with SM-2000 [0-42]
islu/islu2	ISLULG	[0-7],with SM-2000 [0-42]
islu	ISLULGC	[0-7]
islu/islu2	ISLUMAN	[0-7],with SM-2000 [0-42]
islu/islu2	ISLUPIDB	[0-7],with SM-2000 [0-42]
islu/islu2	ISLURG	[0-7],with SM-2000 [0-42]
islu	ISLU-Z	[0-7]
islu	LCEN	[0-7]
islu2	LCKEN	[0-7],with SM-2000 [0-42]

Integrated Services Test Facility (ISTF)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
istf	ISTF	[0-3]

Inter-Working Gateway (IWG)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
iwg	IWG	[0-5]
iwg	IWGFAC	[1-5]

Inter-Working Unit (IWU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
iwu	IWU	[1-5]
iwg	IWUFAC	[1-5]

IWG (Refer to: Inter-Working Gateway)

IWGFAC (Refer to: Inter-Working Gateway)

IWU (Refer to: Inter-Working Unit)

IWUFAC (Refer to: Inter-Working Unit)

LBD (Refer to: Line Board)

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LC (Refer to: Line Card)

LC (Refer to: Line Circuit)

LCKT (Refer to: Line Circuit)

LDSF (Refer to: Local Digital Service Function)

LDSU (Refer to: Local Digital Service Unit)

Level (LVL)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
level	ALINK	[0-15]
level	CGN	[0-3]
level	CON	[0-3]
level	LEN	[0-3]

LG (Refer to: Line Group)

LGC (Refer to: Line Group Controller)

Line

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
line	ILEN	[1-2048]
line	INEN	[1-2048]
line	GEN	[1-2048]
line	MEN	[1-99]
line	SLEN	[1-96]

Line Board (LB)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
lbd	ISLULBD	[0-7]
lbd	ISLULCKT	[0-7]
ldb	LCKEN	[0-7]

Line Card (LC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
lc	ISLULC	[0-31]
lc	LCEN	[0-31]

Line Circuit (LC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
lc	AIULC-P	[0-23]
lc	AIULC-T	[0-31]
lc	AIULC-U	[0-31]
lc	AIULC-Z	[0-31]
lc	AIUEN	[0-31]

Line Circuit (LCKT)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
lckt	ISLULCKT	[0-7]
lckt	LCKEN	[0-7]

Line Group (LG)

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Unit/Equipment	When Used With	Valid Range(s)/Value(s)
lg	ISLULCKT	[0-15]
lg	ISLULG	[0-15]
lg	ISLU-Z	[0-15]
lg	LCEN	[0-15]
lg	LCKEN	[0-15]

Line Group Controller (LGC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
lgc	ISLULC	[0-15]
lgc	ISLULGC	[0-15]
lgc	ISLU-Z	[0-15]
lgc	LCEN	[0-15]

Line Pack (LP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
lp	AIULC-P	[0-19]
lp	AIULC-T	[0-19]
lp	AIULC-U	[0-19]
lp	AIULC-Z	[0-19]
lp	AIULP-P	[0-19]
lp	AIULP-T	[0-19]
lp	AIULP-U	[0-19]
lp	AIULP-Z	[0-19]
lp	AIUEN	[0-19]

Line Unit (LU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
lu	ALINK	[0-7], with SM-2000 [0-42]
lu	GDXACC	[0-7], with SM-2000 [0-42]
lu	GDXCON	[0-7], with SM-2000 [0-42]
lu	GRID	[0-7], with SM-2000 [0-42]
lu	GRIDBD	[0-7], with SM-2000 [0-42]
lu	LEN	[0-7], with SM-2000 [0-42]
lu	LUCHAN	[0-7], with SM-2000 [0-42]
lu	LUCHBD	[0-7], with SM-2000 [0-42]
lu	LUCOMC	[0-7], with SM-2000 [0-42]
lu	LUHLSC	[0-7], with SM-2000 [0-42]

Link

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
link	CLS (PSU SS7)	[256-511]
link	LS	[1-511]
link	LS (PSU SS7)	[1-255]
link	XDB	[0-4095]
link	PSALNK	[1-10]

Local Digital Service Function (LDSF)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ldsf	LDSF	[0-5]

Local Digital Service Unit (LDSU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ldsu	LDSU	[0]
ldsu	LDSUCOM	[0]
ldsu	RVPT	[0]
ldsu	UTD	[0]
ldsu	UTG	[0]

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LP (Refer to: Line Pack)

LU (Refer to: Line Unit)

LVL (Refer to: Level)

MAB (Refer to: Metallic Access Board)

MAN (Refer to: Metallic Access Network)

MCTSI-based Ethernet Link (MELNK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
melnk	MELNK	[0-69]

MCTSI-based Ethernet Pipe (MEPIPE)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
mepipe	MEPIPE/MELNK	[0]

MELNK (Refer to: MCTSI-based Ethernet Link)

Member

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
member	AM	[1-6]
member	AP	[1-99]
member	AQ	[0-15]
member	AQM	[0-15]
member	BGMN	[0-65535]
member	CU	[0,1]
member	DASC	[1-99]
member	DCI	[1-255]
member	DFC	[0-255]
member	DLN	[2] for CNI only
member	DPC	[0-255]
member	DPCID	[0-255]
member	DSLGM	[0-127] [0-767] (5E21(1)+)
member	EIS	[0-999]
member	HOBICR	[1-99]
member	HOBICV	[1-99]
member	HOBIS	[1-99]
member	LINK	[1-6] if group=[0,32]
member	LINK	[1-8] if group=[1,2,33,34]
member	LN	[1-6] if group=[0,32]
member	LN	[1-8] if group=[1,2,33,34]
member	LNKLST	[1-6] if group=[0,32]
member	LNKLST	[1-8] if group=[1,2,33,34]
member	LNKR	[1-6] if group=[0,32]
member	LNKR	[1-8] if group=[1,2,33,34]
member	LS	[0-7]
member	LS	[0-15]
member	MISLNK	[0-3]
member	MLHG	[1-4000]
member	NODE	[6] if group=[0,32]
member	NODE	[8] if group=[1,2,33,34]
member	PSLT	[1-6] if group=[0,32]
member	PSLT	[1-8] if group=[1,2,33,34]
member	RAS	[1-99]
member	RPCN	[0]
member	RTRS	[1-99]
member	RUTIL	[0-6] if group=[0,32]
member	RUTIL	[1-8] if group=[1,2,33,34]

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member	RUTILFLAG	[0-6] if group=[0,32]
member	RUTILFLAG	[1-8] if group=[1,2,33,34]
member	SCSD	[0-16]
member	SLK	[1-6] if group=[0,32]
member	SLK	[1-8] if group=[1,2,33,34]
member	TKGMN	[0-1951], for BICC[0-65535]

MEPIPE (Refer to: MCTSI-based Ethernet Pipe)

Message Handler (MH)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
mh	MCTSI	[0-2]

Message Switch (MSGS)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
msgs	MSGS	[0-1]
msgs	CLNK	[0-1]
msgs	CMP	[0-1]
msgs	FPC	[0-1]
msgs	MMP	[0-1]
msgs	MSCU	[0-1]
msgs	PPC	[0-1]
msgs	QGL	[0-1]
msgs	QGP	[0-1]

Message Switch Control Unit (MSCU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
mscu	MSCU	[0-1]

Metallic Access Board (MAB)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
mab	MAB	[0-15]

Metallic Access Network (MAN)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
man	ISLUMAN	[0-1]

Metallic Service Unit (MSU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
msu	ALIT	[0-1]
msu	DFTAC	[0-1]
msu	DIST	[0-1]
msu	GDXC	[0-1]
msu	MA	[0-1]
msu	MAB	[0-1]
msu	MSUCOM	[0-1]
msu	MTIBAX	[0-1]
msu	PROTO	[0-1]
msu	SCAN	[0-1]
msu	SLIM	[0-1]

Metallic Test Bus (MTB)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
mtb	MTB	[0-15]

Metallic Test Interconnect Bus (MTIB)

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Unit/Equipment	When Used With	Valid Range(s)/Value(s)
mtib	MTIB	[0-13]

Metallic Test Interface Bus Access (MTIBAX)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
mtibax	MTIBAX	[0-3]

MLHG (Refer to: Multi-Line Hunt Group)

Module Message Processor (MMP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
mmp	MMP	[0-47] for CM2 [0-1] for CM3

MSCU (Refer to: Message Switch Control Unit)

MSGS (Refer to: Message Switch)

MSU (Refer to: Metallic Service Unit)

MTB (Refer to: Metallic Test Bus)

MTIB (Refer to: Metallic Test Interconnect Bus)

MTIBAX (Refer to: Metallic Test Interface Bus Access)

Multi-Line Hunt Group (MLHG)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
mlhg	DN	[1-8191]
mlhg	MLHG	[1-8191]
mlhg	PKDN	[1-8191]

Name

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
name	CKT	[0-65535]
name	PORT	[1-65535]

Network

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
network	DPCID	[0-255]

Network Clock Oscillator (NCOSC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
nsosc	NSOSC	[0-1]

Network Clock Reference (NCREF)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ncref	XC	[0-1]

Network Cluster

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
network cluster	DPC	[0-255]

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Network Indicator (NID)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
nid	DPC	[0-255]

Network Link Interface (NLI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
nli	NLI	[0-23]

Number

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
number	LPORT	[0-32766]
number	PSUPH	[0-15]
number	XDPF	[1-8]
number	XDPO	[1-32]

OC3 (Refer to: Optical Carrier Level 3)

OC3C (Refer to: Optical Carrier Level 3 Concatenated)

OCL (Refer to: Operator Communications Link)

Office Network Timing Complex (ONTC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ontc	DLI	[0-1]
ontc	NCOSC	[0-1]
ontc	NLI	[0-1]
ontc	ONTC	[0-1]
ontc	ONTCCOM	[0-1]
ontc	OSCXC	[0-1]
ontc	PRIM	[0-1]
ontc	QLPS	[0-1]
ontc	QTMSLNK	[0-1]
ontc	SEC	[0-1]
ontc	TMS	[0-1]
ontc	TMSFP	[0-1]
ontc	TMSLNK	[0-1]

Office Network Timing Common Units (ONTCCOM)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ontccom	ONTCCOM	[0-1]

Operator Communications Link (OCL)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ocl	LOOP	[1-3]

Operator Services Center (OSC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
osc	BST	[1-32]
osc	OPT	[1-32]

Optical Carrier Level 3 (OC3)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
oc3	OC3	[1]
oc3	STS1	[1]

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oc3	VT15	[1]
oc3	DS1	[1]
oc3	OIUEN	[1]

Optical Carrier Level 3 Concatenated (OC3C)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
oc3c	OC3C	[1]
oc3c	STS3C	[1]
oc3c	PPPLK	[1]
oc3c	OIUEN	[1]

Optical Interface Unit (OIU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
oiu	OFI	[0-7]
oiu	OC3	[0-7]
oiu	STS1	[0-7]
oiu	VT15	[0-7]
oiu	DS1	[0-7]

Oscillator Cross-coupler (OSCXC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
oscxc	OSCSC	[0-1]

Protocol Handler Group (PHGRP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
phgrp	BPH	[1-10]
phgrp	SHO	[1-20]
phgrp	NPH	[1-20]

Packet Switching Unit (PSU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
psu	PSU	[0] (5E15 only) [0-1] (5E16(1)+)
psu	PSUPIDB	[0] (5E15 only) [0-1] (5E16(1)+)
psu	PSUCOM	[0] (5E15 only) [0-1] (5E16(1)+)
psu	PSUEN	[0] (5E15 only) [0-1] (5E16(1)+)
psu	PSUPH	[0] (5E15 only) [0-1] (5E16(1)+)
psu	UEN	[0] (5E15 only) [0-1] (5E16(1)+)
psu	PSALNK	[0-1]
psu	PSELNK	[0-1]

Packet Switching Ethernet Link (PSELNK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
pselnk	BPH	[1-48]
pselnk	SHO	[1-48]
pselnk	NPH	[1-48]
pselnk	PCF	[1-48]
pselnk	SIP	[1-48]

Packet Switching Unit Community Address

Unit/Equipment	When Used With	Valid Range(s)/Value(s)

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near psu ca	PSLNK	[1-254]
far psu ca	PSLNK	[0-254]

Peripheral Control and Timing Data Exchanger Unit (PDXU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
pdxu	PDXU	[0-35]
pdxu	PCTDX	[0-1]

Peripheral Control and Timing Facility Interface (PCTFI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
pctfi	PLTLK	[0-2]
pctfi	TRIB	[0-2]
pctfi	PLTEN	[0-2]

Peripheral Control and Timing Facility Interface (PCTFI) Link Side

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
PCT link	PLTLK	[0-1]
PCT link	TRIB	[0-1]

Peripheral Control and Timing Link Tributary (TRIB)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
trib	PLTLK	[1-28]
trib	TRIB	[1-28]
trib	PLTEN	[1-28]

PCT Line and Trunk Unit (PLTU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
pltu	PLTLK	[0-35]
pltu	TRIB	[0-35]
pltu	PLTEN	[0-35]

Peripheral Interface Data Bus (PIDB)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
pidb	IDCUPIDB	[1-22]
pidb	ISLUPIDB	[0-11]
pidb	PSUPIDB	[1-3]
pidb	PIDBCOM	[0]

PFID (Refer to: Private Facility ID)

PH (Refer to: Protocol Handler)

PIDB (Refer to: Peripheral Interface Data Bus)

PMU (Refer to: Precision Measurement Unit)

Port

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
port	DCTUPORT	[0-11]
port	LTP	[0-255]
port	RAF	[0-31]
port	SAS	[0-31]
port	PLI	[0,3]

PPC (Refer to: Pump Peripheral Controller)

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Precision Measurement Unit (PMU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
pmu	PMU	[0-2]

Primary Rate Interface Group (PRIGRP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
prigrp	PRIGRP	[1-4095]

Private Facility ID (PFID)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
pfid	PFID	[0-9999]

Processor Group

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
processor group	PCRGRP	[1-24] (5E16(2)+)

Protection Group (PG)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
pg	OFI	[0-9]
pg	OC3	[0-9]
pg	STS1	[0-9]
pg	VT15	[0-9]
pg	DS1	[0-9]
pg	OIUEN	[0-9]

Protocol Handler (PH)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ph	PSIUPH	[0-15]

Protocol Handler Peripheral Control and Timing Link (PHPCTLNK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
PCT link	PHPCTLNK	[0,3]

PSU (Refer to: Packet Switching Unit)

Pump Peripheral Controller (PPC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ppc	PPC	[0-1]

QGL (Refer to: QLPS Gateway Link)

QGP (Refer to: QLPS Gateway Processor)

QLPS (Refer to: Quad-link Packet Switch)

QLPS Gateway Link (QGL)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
qgl	QGL	[0-3]

QLPS Gateway Processor (QGP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)

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qgp	QGP	[0-1] for CM2 [0] for CM3

QLPS Time Multiplexed Switch Link (QTMSLNK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
qtmslnk	QTMSLNK	[0-3]

QTMSLNK (Refer to: QLPS Time Multiplexed Switch Link)

Quad-link Packet Switch (QLPS)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
qlps	QLPS	[0-1]

Radio Port Controller Unit (RPCU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rpcu	RPCU	[1-1023]

RAF (Refer to: Recorded Announcement Function|Facility)

RCLK (Refer to: Remote Clock)

RCREF (Refer to: Remote Clock Reference)

Receive Unit (RU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ru	RAF	[0-7]

Recorded Announcement Facility|Function (RAF)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
raf	RAF	[0-7]

Region

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
region	DPC	[0-31]

Relative Position (RP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rp	BST	[1-4095]
rp	OPT	[1-4095]

Remote Clock (RCLK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rclk	RCLK	[0-1]

Remote Clock Reference (RCREF)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rcref	RCREF	[1-8]

Remote ISLU (RISLU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rislu	RRCLK	[0-7]

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Remote Link Interface (RLI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rli	RLI	[0-1]

Remote Switching Module (RSM)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rsm	UMBIL	[1-192]

Remote Terminal (RT)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rt	DNUSEOC	[1-31]
rt	DNUSTMC	[1-31]
rt	IDCUEOC	[1-31]
rt	IDCUTMC	[1-31]
rt	GEN	[1-31]
rt	ILEN	[1-31]
rt	INEN	[1-99]
rt	SLEN	[1-6]

Return to Point of Interrupt (RPI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rpi	RPI	[0-255]

Ring Generator (RG)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
rg	AIURG	[0-1]

RISLU (Refer to: Remote ISLU)

RLI (Refer to: Remote Link Interface)

RP (Refer to: Relative Position)

RPI (Refer to: Return to Point of Interrupt)

RSM (Refer to: Remote Switching Module)

RT (Refer to: Remote Terminal)

RU (Refer to: Receive Unit)

SA

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sa	SA	[0-15]

SAS (Refer to: Service Announcement System)

SCCP Routing Verification Test (SRVT)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
srvt	SRVT	[8-16]

SCCP Subsystem Number (SSN)

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Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sccp	SCCP	[0-255]

SDFI (Refer to: *SLC*® 96 Digital Facilities Interface)

Service Announcement System (SAS)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sas	SAS	[0-7]

Service Group (SG)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sg	all	[0-1]

SFI (Refer to: Synchronous Transport Signal Facility Interface)

SG (Refer to: Service Group)

Shelf

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
shelf	PF	with SM-2000 only [0-4]
shelf	PSUEN	[0-4]
shelf	PSUPH	[0-5]
shelf	PSUPIDB	[0-5]
shelf	UEN	[0-4]

SID (Refer to: Site ID)

Side

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
side	OC3	[0-1]
side	OC3C	[0-1]
side	OFI	[0-1]
side	PLI	with SM-2000 only [0-1]
side	PSUCOM	with SM-2000 only [0-1]
side	RCOSC	[0-1]
side	RCOXC	[0-1]
side	RCREF	[0-1]
side	RCXC	[0-1]

Signaling Transfer Point (STP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
stp	STP	[1-15]

Site ID (SID)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sid	EOC	[1-9999]
sid	FAC	[1-9999]
sid	TMC	[1-9999]

SLC® 96 Digital Facilities Interface (SDFI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sdfi	SDFI	[0-29]

Slot

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
slot	PSIUPH	[0-31]

SM (Refer to: Switching Module)

SRVT (Refer to: SCCP Routing Verification Test)

SSN (Refer to: SCCP Subsystem Number)

STE (Refer to: Synchronous Optical Network Terminating Equipment)

STS (Refer to: Synchronous Transport Signal)

STS1 (Refer to: Synchronous Transport Signal Level 1)

STS3C (Refer to: Synchronous Transport Signal Level 3 Concatenated)

Switch (SW)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sw	LEN	[0-7]

Switch Group (SWG)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
swg	LEN	[0-1]
swg	TEN	[0-1]

Switching Module (SM)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sm	all	[1-192]

SWG (Refer to: Switch Group)

Synchronous Optical Network Terminating Equipment (STE)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
ste	EC1STE	[1-6]
ste	NEN	[1-6]
ste	STSFAC	[1-6]
ste	VT1FAC	[1-6]

Synchronous Transport Signal (STS)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sts	DS1SFAC	[1]
sts	EC1STE	[1]
sts	NEN	[1]
sts	STSFAC	[1]
sts	VT1FAC	[1]

Synchronous Transport Signal Facility Interface Indicator (SFI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sfi	SFI	[0-1]

Synchronous Transport Signal Level 1 (STS1)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
sts1	OIUEN	[1-3]

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sts1	STS1	[1-3]
sts1	VT15	[1-3]
sts1	DS1	[1-3]

Synchronous Transport Signal Level 3 Concatenated (OC3C)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
oc3c	STS3C	[1]
oc3c	PPPLK	[1]
oc3	OIUEN	[1]

Test Unit (TU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tu	CDI	[0-7]
tu	TAC	[0-7]
tu	TEN	[0-7]
tu	TUCHBD	[0-7]

TGID (Refer to: Trunk Group ID)

Time Multiplexed Switch Fabric Pair (TMSFP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tmsfp	TMS	[0] for CM2 (5E16(2)+) [0-3] for CM3 (5E16(2)+)
tmsfp	TMSFP	[0-3]
tmsfp	TMSLNK	[0] for CM2 (5E16(2)+) [0-3] for CM3 (5E16(2)+)

Time Multiplexed Switch Link (TMSLNK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tmslnk	TMSLNK	[2-511]

Timeslot Data Block (TSDB)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tsdb	TS	[0-12287]

Timeslot Group (TSGRP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tsgrp	AIUTSGRP	[0-5]

Timeslot Management Channel (TMC)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tmc	DNUSTMC	[0-1]
tmc	IDCUTMC	[0-1]

TMSFP (Refer to: Time Multiplexed Switch Fabric Pair)

TMSLNK (Refer to: Time Multiplexed Switch Link)

TMUX (Refer to: Transmission Multiplexer)

Translation Signaling Point (TSP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tsp	NTSP	[1-15]

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Transmission Multiplexer (TMUX)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tmux	TMUX	[0-6]

Transmission Rate Converter Unit (TRCU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
trcu	TRCP	[0-23]
trcu3	TCTS	[2-255]

Trib

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
trib	PLTEN	[1-28]

Trunk Group ID (TGID)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tgid	TGID	[0-9999]

Trunk Unit (TU)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
tu	TEN	[0-7]

TSDB (Refer to: Timeslot Data Block)

TSGRP (Refer to: Timeslot Group)

Time Slot Interchange Slice (TSIS)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
TSIS number	PLI	[0,9]

TSP (Refer to: Translation Signaling Point)

TU (Refer to: Test Unit)

TU (Refer to: Trunk Unit)

Type

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
type	LPORT	[BFG,ISDN,OTHER,PKT]
type	TYPE	[0-254]

Umbilical (UMBIL)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
umbil	UMBIL	[1-20]

Virtual Analog (VANA)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
vana	VANA	[1-28800]

Virtual BRI (VBRI)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)

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vbri	VBRI	[1-3840]

Virtual Channel Identifier (VCID)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
vcid	PSALNK	[0-1023]

Virtual Tributary 1.5 Group (VTGRP)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
vtgrp	DS1	[1-7]
vtgrp	DS1SFAC	[1-7]
vtgrp	NEN	[1-7]
vtgrp	VT15	[1-7]
vtgrp	VT1FAC	[1-7]
vtgrp	OIUEN	[1-7]

Virtual Tributary 1.5 Member (VTMEM)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
vtmem	DS1	[1-4]
vtmem	DS1SFAC	[1-4]
vtmem	NEN	[1-4]
vtmem	VT15	[1-4]
vtmem	VT1FAC	[1-4]
vtmem	OIUEN	[1-4]

Virtual Trunk Facility (VTRK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
vtrk	VTRK	[1-1008]

Virtual Trunk Facility (VTRK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
vtrk	VTRK	[1-1008]

Virtual Trunk Channel (VTRK)

Unit/Equipment	When Used With	Valid Range(s)/Value(s)
vtrk	VTRK	[1-24]

ZLC (Refer to: Analog Line Card)

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APP:SYS-RESPONSE

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: SYSTEM RESPONSES

Acknowledgement	Meaning
IP	In progress. Request received and initiated. Further output will follow.
NA	No acknowledgment. Normally, the system acknowledges an input request within 5 to 10 seconds. If control of the message processing has been lost, NA is output to indicate an acknowledgment failure. Input message execution may or may not complete. Normal results will occur if the execution completes successfully. The NA response should only occur during abnormal circumstances such as overload conditions.
NG	No good. The message was received, but the request conflicts with the current system or equipment status; for example, an attempt was made to restore a unit that is being diagnosed.
NO	Feature not available. The requested action failed because the feature required to process the request is not present in the switch or the given module.
OK	Good. The message was received, the appropriate process was initiated, and work was completed.
PF	Printout follows. The request was received and will be acted upon. A printout will follow sometime later to explain in detail the results of the work initiated by the IM. This printout may be a termination report that may include the result of the work initiated by the IM.
RL	Retry later. Request cannot be executed now because resources are unavailable or the requested process is busy. The message may be entered again later.
?A	Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted.
?D	Data field or a block of parameters following the DATA parameter contains an error. It may mean that an item was incorrectly typed or improper data was entered, or that a keyword or execute symbol was omitted. The message should be checked in the Input Messages document.
?E	Error exists in the message but cannot be resolved to the proper field.
?T	Time-out has occurred on the channel. Input has not been received within the allotted time, and processing of the message has been aborted.
?V	Verb field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted.
?X	A request has been made to abort the current message or to interrupt the current output process.

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APP:TARGETS-A

Software Release: 5E20(1) and later
Command Group: N/A
Application: 5,3B
Type: Input

1. UPD TARGET DESCRIPTIONS AND MAPPING TO INPUT AND OUTPUT MESSAGES

This appendix provides a centralized location for describing TARGETS for UPD input and output messages.

The table below lists all valid targets and provides a small description of each target. The OUTPUT field is the value that is printed as part of the UPD:VFYCON and the LIST OF AFFECTED TARGETS UPD:APPLY output messages.

Table 1 TARGET DEFINITION

TARGET	OUTPUT	DESCRIPTION
AM	AM	Administrative module
AMPATH	AMPATH	Office specific update in the AM
ASM	ASM	Administrative services module
CF3FW	PSUCOM-CF3FW : SM	Control fanout firmware image - Version 3
CF3HW	PSUCOM-CF3HW : SM	Control fanout hardware image - Version 3
CF4FW	PSUCOM-CF4FW : SM	Control fanout firmware image - Version 4
CF4HW	PSUCOM-CF4HW : SM	Control fanout hardware image - Version 4
CM3	CM3	Communication module 3 (CM3)
CM3MSGSAP	MSGS-AP : CM3	CM3 message switch AP
CM3MSGSIP	MSGS-IP : CM3	CM3 message switch input/Output processor
CM3MSGSROM	MSGS-ROM : CM3	CM3 message switch read-only memory
CM3ONTCAP	ONTC-AP : CM3	CM3 ONTC AP
CM3ONTCIP	ONTC-IP : CM3	CM3 ONTC input/output processor
CM3ONTCROM	ONTC-ROM : CM3	CM3 ONTC read-only memory
CSCPDG	DSU3-CSCPDG : SM	Common service circuit platform diagnostic image
CSCPSAS	DSU3-CSCPSAS : SM	Common service circuit platform SAS AP image
DDMA	PSU-DDMA : SM	Diagnostic direct memory access
DNUSCC	DNUSCC : SM	Digital networking unit SONET common control
DNUSTMX	DNUSTMX : SM	DNU SONET transmission multiplexer
DSC3	DSC3-DSC3 : SM	Digital service circuit (DSC) - Model 3
DSC4	DSC4-DSC4 : SM	Digital service circuit (DSC) - Model 4
DSP13K	PSU-DSP13K : SM	PHV3 13K CDMA DSP image
DSP8K	PSU-DSP8K : SM	PHV3 8K CDMA DSP image
DSPEVRC	PSU-DSPEVRC : SM	PHV3 EVRC CDMA DSP image
EMULATOR	EMULATOR	VCDX emulator product update
GDSF	DSC3-GDSF : SM	Global digital services function
GDSF2	DSC4-GDSF2 : SM	Global digital services function - Model 2
HDSU	DSU2-HDSU : SM	Hardware digital service unit
HSAS	DSU2-HSAS : SM	Service announcement system diagnostic image
IDCUCCP	IDCU-CCP : SM	Integrated digital carrier unit (IDCU) common control processor
IDCUDLP	IDCU-DLP : SM	IDCU data link processor
IDCULSI	IDCU-LSI : SM	IDCU loop side interface
IP22	PSU-IP22 : SM	PH22 common input/output processor (IOP) image
IP3S	PSU-IP3S : SM	PH3 CCS IOP image
IP4F	PSU-IP4F : SM	Frame relay PH4 IOP image
IP4I	PSU-IP4I : SM	ISDN PH4 IOP image
IP4IF	PSU-IP4IF : SM	ISDN frame relay PH4 IOP image
ISLU	ISLU-CC : SM	Integrated services line unit
ISLU2	ISLU2-CC : SM	Integrated services line unit 2
ISTF	DSU2-ISTF : SM	Integrated services test function
LDSF	DSC3-LDSF : SM	Local digital services function
LDSF2	DSC4-LDSF2 : SM	Local digital services function - Model 2

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LDSU	DSU2-LDSU : SM	Local digital service unit
MH32	MCTSI-MH32 : SM	SMP message handler (MH) 32 operational image
MHEIB	MCTSI-MHEIB : SM	SMP MH ethernet Interface board operational image
MHLB	MCTSI-MHLB : SM	SMP MH little boot image
MHPPC	MCTSI-MHPPC : SM	SMP MH *PowerPC*® operational image
MHPPCLB	MCTSI-MHPPCLB : SM	SMP MH *PowerPC*® Little Boot image
MHPROM	MHPROM : SM	SM-2000 message handler programmable read-only memory
ODMA	PSU-ODMA : SM	Operational direct memory access
OIOP	PSU-OIOP : SM	Operational input/output processor
OIU24	OIU24 : SM	Optical interface unit - 24 channels
OIUATM	OIUATM : SM	Optical interface unit - asynchronous transfer mode (ATM)
OIUIP	OIUIP : SM	Optical interface unit - internet protocol (IP)
PF3FW	PSUCOM-PF3FW : SM	Packet fanout firmware image - Version 3
PF3HW	PSUCOM-PF3HW : SM	Packet fanout hardware image - Version 3
PF3IFW	PSUCOM-PF3IFW : SM	Packet Fanout firmware Image for iPS - Version 3
PF3IHW	PSUCOM-PF3IHW : SM	Packet fanout hardware image for iPS - Version 3
PF4FW	PSUCOM-PF4FW : SM	Packet Fanout firmware image - Version 4
PH22I	PSU-PH22I : SM	PH22 wireless ISDN AP image
PH22S	PSU-PH22S : SM	PH22 signaling AP image
PH2A	PSU-PH2A : SM	PH2 access AP image
PH2G	PSU-PH2G : SM	PH2 gateway AP image
PH31S	PSU-PH31S : SM	PH31 signaling AP image
PH33Q	PSU-PH33Q : SM	PH33 generalized quad-link packet switch (QLPS) image
PH3C	PSU-PH3C : SM	PH3 common AP image
PH3S	PSU-PH3S : SM	PH3 CCS AP image
PH4A	PSU-PH4A : SM	PH4 access AP image
PH4G	PSU-PH4G : SM	PH4 gateway AP image
PH4I	PSU-PH4I : SM	PH4 ISDN AP image
PHA1A	PSU-PHA1A : SM	PH for asynchronous transfer mode (ATM) AP image
PHA2A	PSU-PHA2A : SM	PH for ATM Model 2 AP image
PHE2E	PSU-PHE2E : SM	PHE2 for ethernet AP image
PHE2S	PSU-PHE2S : SM	PHE2 SIP-PH AP image
PHE3B	PSU-PHE3B : SM	PH for IP backhaul (IPBH) AP image
PHE3N	PSU-PHE3N : SM	Network PH (NPH) for packet voice architecture (PVA) AP image
PHE4I	PSU-PHE4I : SM	PH for IP soft handoff (IPSHO) AP image
PHV1C	PSU-PHV1C : SM	PH for voice (PHV) version 1 for CDMA AP image
PHV3C	PSU-PHV3C : SM	PHV3 for CDMA AP image
PHV4C	PSU-PHV4C : SM	PHV4 for CDMA AP image
PHV5C	PSU-PHV5C : SM	PHV5 for CDMA AP image
PHV6C	PSU-PHV6C : SM	PHV6 for CDMA AP image
PI	MCTSI-PI : SM	Packet interface
PI2	MCTSI-PI2 : SM	Packet interface - Version 2
RAF	DSU2-RAF : SM	Recorded announcement function
SAS	DSU2-SAS : SM	Service announcement system operational image
SM	SM	Switching module
SM2K	SM2K	Switching module-2000 (SM-2000)
SM2KFX	SM2KFX	SM-2000 *PowerPC*® upgrade
SM2KPROM	SMPROM : SM	SM-2000 programmable read-only memory
V3DACP	PSU-V3DSPACELP : SM	PHV3 ACELP TDMA DSP image
V3DVSP	PSU-V3DSPVSELP : SM	PHV3 VSELP TDMA DSP image
V4D13K	PSU-V4DSP13K : SM	PHV4 13K CDMA DSP image
V4D8K	PSU-V4DSP8K : SM	PHV4 8K CDMA DSP image
V4DACP	PSU-V4DSPACELP : SM	PHV4 ACELP TDMA DSP image
V4DEVR1	PSU-V4DSPEVRC1 : SM	PHV4 EVRC1 CDMA DSP image
V4DEVR2	PSU-V4DSPEVRC2 :	PHV4 EVRC2 CDMA DSP image

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	SM	
V4DEVR3	PSU-V4DSPEVRC3 : SM	PHV4 EVRC3 CDMA DSP image
V4DISL	PSU-V4DSPISLP : SM	PHV4 ISLP DSP image
V4DVSP	PSU-V4DSPVSELP : SM	PHV4 VSELP TDMA DSP image
V5D13K	PSU-V5DSP13K : SM	PHV5 consolidated 13K + EVRC CDMA DSP image
V5D8K	PSU-V5DSP8K : SM	PHV5 8K CDMA DSP image
V5DACP	PSU-V5DACP : SM	PHV5 ACELP TDMA DSP image
V5DEVR1	PSU-V5DSPEVRC1 : SM	PHV5 EVRC1 CDMA DSP image
V5DEVR2	PSU-V5DSPEVRC2 : SM	PHV5 EVRC2 CDMA DSP image
V5DEVR3	PSU-V5DSPEVRC3 : SM	PHV5 EVRC3 CDMA DSP image
V5DEVRB	PSU-V5DEVRCB : SM	PHV5 consolidated EVRCB + EVEVB DSP image
V5DISL	PSU-V5DSPISLP : SM	PHV5 ISLP DSP image
V6D13K	PSU-V6DSP13K : SM	PHV6 consolidated 13K + EVRC DSP image
V6DCKT	PSU-V6DSPCKT : SM	PHV6 PVA circuit vocoder DSP image
V6DEVRB	PSU-V6DEVRCB : SM	PHV6 consolidated EVRCB + EVEVB DSP image
V6DPKT	PSU-V6DSPPKT : SM	PHV6 PVA packet vocoder DSP image

The following table maps TARGET names to allowed UPD commands.

FUNCR refers to UPD:APPLY-FUNCR.

FILER refers to UPD:APPLY-FILER.

BYTER refers to UPD:APPLY-BYTER.

The remaining columns are UPD:VFYCON, UPD:RCVRY, UPD:HSCHK, UPD:DUMPCORE, and UPD:PMPPERF.

The • symbol indicates the TARGET is valid for the input message declared in the column header. The . symbol indicates the target is not allowed.

Table 2 TABLE MAPPING TARGET TO ALLOWED UPD COMMANDS

TARGET	FUNCR	FILER	BYTER	VFYCON	RCVRY	HSCHK	DUMPCORE	PMPPERF
AM	•	•	•	•	•	.	.	.
AMPATH	•	•	.	.	.	.	.	.
ASM	.	.	.	•	.	.	.	.
CF3FW	.	•	.	•	•	•	•	•
CF3HW	.	•	.	•	•	•	•	•
CF4FW	.	•	.	•	•	•	•	•
CF4HW	.	•	.	•	•	•	•	•
CM3	.	**a**	.	•	.	.	.	•
CM3MSGSAP	•	.	•	•	.	•	.	.
CM3MSGSIP	.	.	.	•	.	.	.	.
CM3MSGSROM	.	.	.	.	.	.	.	.
CM3ONTCAP	.	.	.	•	.	.	.	.
CM3ONTCIP	.	.	.	•	.	.	.	.
CM3ONTCROM	.	.	.	.	.	.	.	.
CSCPDG	•	•	.	•	•	•	•	.
CSCPSAS	•	•	.	•	•	•	•	•
DDMA	•	•	.	•	•	•	•	.
DNUSCC	•	•	.	•	•	•	•	•
DNUSTMX	•	•	.	•	•	•	•	•
DSC3	•	•	.	•	•	•	•	.
DSC4	•	•	.	•	•	•	•	.

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DSP13K	.	•	.	•	•	•	•	•
DSP8K	.	•	.	•	•	•	•	•
DSPEVRC	.	•	.	•	•	•	•	•
EMULATOR	.	.	.	•	.	.	.	.
GDSF	•	•	.	•	•	•	•	•
GDSF2	•	•	.	•	•	•	•	•
HDSU	•	•	.	•	•	•	•	.
HSAS	•	•	.	•	•	•	•	.
IDCUCCP	•	•	.	•	•	•	•	•
IDCUDLP	•	•	.	•	•	•	•	•
IDCULSI	•	•	.	•	•	•	•	•
IP22	.	•	.	•	•	•	•	•
IP3S	.	•	.	•	•	•	•	•
IP4F	.	•	.	•	•	•	•	•
IP4I	.	•	.	•	•	•	•	•
IP4IF	.	•	.	•	•	•	•	•
ISLU	•	•	.	•	•	•	•	•
ISLU2	•	•	.	•	•	•	•	•
ISTF	•	•	.	•	•	•	•	•
LDSF	•	•	.	•	•	•	•	•
LDSF2	•	•	.	•	•	•	•	•
LDSU	•	•	.	•	•	•	•	•
MH32	•	.	.	•	•	•	•	.
MHEIB	•	.	.	•	•	•	•	.
MHLB	•	.	.	•	•	•	•	.
MHPPC	•	.	.	•	•	•	•	.
MHPPCLB	•	.	.	•	•	•	•	.
MHPROM	.	**b**	.	•	•	•	.	•
ODMA	•	•	.	•	•	•	•	•
OIOP	•	•	.	•	•	•	•	•
OIU24	•	•	.	•	•	•	•	•
OIUIP	•	•	.	•	•	•	•	•
PF3FW	.	•	.	•	•	•	•	•
PF3HW	.	•	.	•	•	•	•	•
PF3IFW	.	•	.	•	•	•	•	•
PF3IHW	.	•	.	•	•	•	•	•
PF4FW	.	•	.	•	•	•	•	•
PH22I	•	•	.	•	•	•	•	•
PH22S	•	•	.	•	•	•	•	•
PH2A	•	•	.	•	•	•	•	•
PH2G	•	•	.	•	•	•	•	•
PH31S	•	•	.	•	•	•	•	•
PH33Q	•	•	.	•	•	•	•	•
PH3C	•	•	.	•	•	•	•	•
PH3S	•	•	.	•	•	•	•	•
PH4A	•	•	.	•	•	•	•	•
PH4G	•	•	.	•	•	•	•	•
PH4I	•	•	.	•	•	•	•	•
PHA1A	•	•	.	•	•	•	•	•
PHA2A	•	•	.	•	•	•	•	•
PHE2E	•	•	.	•	•	•	•	•
PHE2S	•	•	.	•	•	•	•	•
PHE3B	•	•	.	•	•	•	•	•
PHE3N	•	•	.	•	•	•	•	•
PHE4I	•	•	.	•	•	•	•	•
PHV1C	•	•	.	•	•	•	•	•
PHV3C	•	•	.	•	•	•	•	•
PHV4C	•	•	.	•	•	•	•	•
PHV5C	•	•	.	•	•	•	•	•
PHV6C	•	•	.	•	•	•	•	•
PI	•	.	.	•	•	•	•	.
PI2	•	.	.	•	•	•	•	.
RAF	•	•	.	•	•	•	•	•

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SAS	•	•	.	•	•	•	•	•
SM	•	•	•	•	•	•	•	.
SM2K	•	•	•	•	•	•	•	.
SM2KFX	•	•	•	•	•	•	•	.
SM2KPROM	.	**b**	.	•	•	•	.	•
V3DACP	.	•	.	•	•	•	•	•
V3DVSP	.	•	.	•	•	•	•	•
V4D13K	.	•	.	•	•	•	•	•
V4D8K	.	•	.	•	•	•	•	•
V4DACP	.	•	.	•	•	•	•	•
V4DEVR1	.	•	.	•	•	•	•	•
V4DEVR2	.	•	.	•	•	•	•	•
V4DEVR3	.	•	.	•	•	•	•	•
V4DISL	.	•	.	•	•	•	•	•
V4DVSP	.	•	.	•	•	•	•	•
V5D13K	.	•	.	•	•	•	•	•
V5D8K	.	•	.	•	•	•	•	•
V5DACP	.	•	.	•	•	•	•	•
V5DEVR1	.	•	.	•	•	•	•	•
V5DEVR2	.	•	.	•	•	•	•	•
V5DEVR3	.	•	.	•	•	•	•	•
V5DEVRB	.	•	.	•	•	•	•	•
V5DISL	.	•	.	•	•	•	•	•
V6D13K	.	•	.	•	•	•	•	•
V6DCKT	.	•	.	•	•	•	•	•
V6DEVRB	.	•	.	•	•	•	•	•
V6DPKT	.	•	.	•	•	•	•	•

Notes:

a. All CM3 targets (except CM3MSGSAP) are file replaced using the `UPD:APPLY,PKGFILER,TARGET=CM3` entry in the MSGS file.

b. MHPROM and SM2KPROM are file replaced using the `UPD:APPLY,PKGFILER,TARGET=SM2KPROM` entry in the MSGS file.

2. REFERENCES

Input Message(s):

```
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:DUMPCORE
UPD:HSCHK
UPD:PMPPERF
UPD:RCVRY
UPD:VFYCON
```

Output Message(s):

```
UPD:APPLY
UPD:DUMPCORE
UPD:HSCHK
UPD:PMPPERF
UPD:RCVRY
UPD:VFYCON
```

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MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1990 INSTALL BWM

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APP:TARGETS-B

Software Release: 5E21(1) and later
Command Group: N/A
Application: 5,3B
Type: Input

1. UPD TARGET DESCRIPTIONS AND MAPPING TO INPUT AND OUTPUT MESSAGES

This appendix provides a centralized location for describing TARGETS for UPD input and output messages.

The table below lists all valid targets and provides a small description of each target. The OUTPUT field is the value that is printed as part of the UPD:VFYCON and the LIST OF AFFECTED TARGETS UPD:APPLY output messages.

Table 1 TARGET DEFINITION

TARGET	OUTPUT	DESCRIPTION
AM	AM	Administrative module
AMPATH	AMPATH	Office specific update in the AM
ASM	ASM	Administrative services module
CF3FW	PSUCOM-CF3FW : SM	Control fanout firmware image - Version 3
CF3HW	PSUCOM-CF3HW : SM	Control fanout hardware image - Version 3
CF4FW	PSUCOM-CF4FW : SM	Control fanout firmware image - Version 4
CF4HW	PSUCOM-CF4HW : SM	Control fanout hardware image - Version 4
CM3	CM3	Communication module 3 (CM3)
CM3MSGSAP	MSGS-AP : CM3	CM3 message switch AP
CM3MSGSIP	MSGS-IP : CM3	CM3 message switch input/Output processor
CM3MSGSROM	MSGS-ROM : CM3	CM3 message switch read-only memory
CM3ONTCAP	ONTC-AP : CM3	CM3 ONTC AP
CM3ONTCIP	ONTC-IP : CM3	CM3 ONTC input/output processor
CM3ONTCROM	ONTC-ROM : CM3	CM3 ONTC read-only memory
CSCPDG	DSU3-CSCPDG : SM	Common service circuit platform diagnostic image
CSCPSAS	DSU3-CSCPSAS : SM	Common service circuit platform SAS AP image
DDMA	PSU-DDMA : SM	Diagnostic direct memory access
DNUSCC	DNUSCC : SM	Digital networking unit SONET common control
DNUSTMX	DNUSTMX : SM	DNU SONET transmission multiplexer
DSC3	DSC3-DSC3 : SM	Digital service circuit (DSC) - Model 3
DSC4	DSC4-DSC4 : SM	Digital service circuit (DSC) - Model 4
DSP13K	PSU-DSP13K : SM	PHV3 13K CDMA DSP image
DSP8K	PSU-DSP8K : SM	PHV3 8K CDMA DSP image
DSPEVRC	PSU-DSPEVRC : SM	PHV3 EVRC CDMA DSP image
EMULATOR	EMULATOR	VCDX emulator product update
GDSF	DSC3-GDSF : SM	Global digital services function
GDSF2	DSC4-GDSF2 : SM	Global digital services function - Model 2
HDSU	DSU2-HDSU : SM	Hardware digital service unit
HSAS	DSU2-HSAS : SM	Service announcement system diagnostic image
IDCUCCP	IDCU-CCP : SM	Integrated digital carrier unit (IDCU) common control processor
IDCUDLP	IDCU-DLP : SM	IDCU data link processor
IDCULSI	IDCU-LSI : SM	IDCU loop side interface
IP22	PSU-IP22 : SM	PH22 common input/output processor (IOP) image
IP3S	PSU-IP3S : SM	PH3 CCS IOP image
IP4F	PSU-IP4F : SM	Frame relay PH4 IOP image
IP4I	PSU-IP4I : SM	ISDN PH4 IOP image
IP4IF	PSU-IP4IF : SM	ISDN frame relay PH4 IOP image
ISLU	ISLU-CC : SM	Integrated services line unit
ISLU2	ISLU2-CC : SM	Integrated services line unit 2
ISTF	DSU2-ISTF : SM	Integrated services test function
LDSF	DSC3-LDSF : SM	Local digital services function
LDSF2	DSC4-LDSF2 : SM	Local digital services function - Model 2

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LDSU	DSU2-LDSU : SM	Local digital service unit
MH32	MCTSI-MH32 : SM	SMP message handler (MH) 32 operational image
MHEIB	MCTSI-MHEIB : SM	SMP MH ethernet Interface board operational image
MHLB	MCTSI-MHLB : SM	SMP MH little boot image
MHPPC	MCTSI-MHPPC : SM	SMP MH *PowerPC*® operational image
MHPPCLB	MCTSI-MHPPCLB : SM	SMP MH *PowerPC*® Little Boot image
MHPROM	MHPROM : SM	SM-2000 message handler programmable read-only memory
ODMA	PSU-ODMA : SM	Operational direct memory access
OIOP	PSU-OIOP : SM	Operational input/output processor
OIU24	OIU24 : SM	Optical interface unit - 24 channels
OIUATM	OIUATM : SM	Optical interface unit - asynchronous transfer mode (ATM)
OIUIP	OIUIP : SM	Optical interface unit - internet protocol (IP)
PF3FW	PSUCOM-PF3FW : SM	Packet fanout firmware image - Version 3
PF3HW	PSUCOM-PF3HW : SM	Packet fanout hardware image - Version 3
PF3IFW	PSUCOM-PF3IFW : SM	Packet Fanout firmware Image for iPS - Version 3
PF3IHW	PSUCOM-PF3IHW : SM	Packet fanout hardware image for iPS - Version 3
PF4FW	PSUCOM-PF4FW : SM	Packet Fanout firmware image - Version 4
PH22I	PSU-PH22I : SM	PH22 wireless ISDN AP image
PH22S	PSU-PH22S : SM	PH22 signaling AP image
PH2A	PSU-PH2A : SM	PH2 access AP image
PH2G	PSU-PH2G : SM	PH2 gateway AP image
PH31S	PSU-PH31S : SM	PH31 signaling AP image
PH33Q	PSU-PH33Q : SM	PH33 generalized quad-link packet switch (QLPS) image
PH3C	PSU-PH3C : SM	PH3 common AP image
PH3S	PSU-PH3S : SM	PH3 CCS AP image
PH4A	PSU-PH4A : SM	PH4 access AP image
PH4G	PSU-PH4G : SM	PH4 gateway AP image
PH4I	PSU-PH4I : SM	PH4 ISDN AP image
PH50FS	PSU-PH50FS : SM	PH50 Frame Selector FPGA image
PH50FW	PSU-PH50FW : SM	PH50 Firmware image
PH50PA	PSU-PH50PA : SM	PH50 Panda FPGA image
PHA1A	PSU-PHA1A : SM	PH for asynchronous transfer mode (ATM) AP image
PHA2A	PSU-PHA2A : SM	PH for ATM Model 2 AP image
PHE2E	PSU-PHE2E : SM	PHE2 for ethernet AP image
PHE2S	PSU-PHE2S : SM	PHE2 SIP-PH AP image
PHE3B	PSU-PHE3B : SM	PH for IP backhaul (IPBH) AP image
PHE3N	PSU-PHE3N : SM	Network PH (NPH) for packet voice architecture (PVA) AP image
PHE4I	PSU-PHE4I : SM	PH for IP soft handoff (IPSHO) AP image
PHV1C	PSU-PHV1C : SM	PH for voice (PHV) version 1 for CDMA AP image
PHV3C	PSU-PHV3C : SM	PHV3 for CDMA AP image
PHV4C	PSU-PHV4C : SM	PHV4 for CDMA AP image
PHV5C	PSU-PHV5C : SM	PHV5 for CDMA AP image
PHV6C	PSU-PHV6C : SM	PHV6 for CDMA AP image
PHV7C	PSU-PHV7C : SM	PHV7 for CDMA AP image
PHV7HW	PSU-PHV7HW : SM	PHV7 Frame Selector FPGA and PxD images
PI	MCTSI-PI : SM	Packet interface
PI2	MCTSI-PI2 : SM	Packet interface - Version 2
RAF	DSU2-RAF : SM	Recorded announcement function
SAS	DSU2-SAS : SM	Service announcement system operational image
SM	SM	Switching module
SM2K	SM2K	Switching module-2000 (SM-2000)
SM2KFX	SM2KFX	SM-2000 *PowerPC*® upgrade
SM2KPROM	SMPROM : SM	SM-2000 programmable read-only memory
V3DACP	PSU-V3DSPACELP : SM	PHV3 ACELP TDMA DSP image
V3DVSP	PSU-V3DSPVSELP : SM	PHV3 VSELP TDMA DSP image
V4D13K	PSU-V4DSP13K : SM	PHV4 13K CDMA DSP image
V4D8K	PSU-V4DSP8K : SM	PHV4 8K CDMA DSP image
V4DACP	PSU-V4DSPACELP :	PHV4 ACELP TDMA DSP image

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	SM	
V4DEVR1	PSU-V4DSPEVRC1 : SM	PHV4 EVRC1 CDMA DSP image
V4DEVR2	PSU-V4DSPEVRC2 : SM	PHV4 EVRC2 CDMA DSP image
V4DEVR3	PSU-V4DSPEVRC3 : SM	PHV4 EVRC3 CDMA DSP image
V4DISL	PSU-V4DSPISLP : SM	PHV4 ISLP DSP image
V4DVSP	PSU-V4DSPVSELP : SM	PHV4 VSELP TDMA DSP image
V5D13K	PSU-V5DSP13K : SM	PHV5 consolidated 13K + EVRC CDMA DSP image
V5D8K	PSU-V5DSP8K : SM	PHV5 8K CDMA DSP image
V5DACP	PSU-V5DACP : SM	PHV5 ACELP TDMA DSP image
V5DEVR1	PSU-V5DSPEVRC1 : SM	PHV5 EVRC1 CDMA DSP image
V5DEVR2	PSU-V5DSPEVRC2 : SM	PHV5 EVRC2 CDMA DSP image
V5DEVR3	PSU-V5DSPEVRC3 : SM	PHV5 EVRC3 CDMA DSP image
V5DEVRB	PSU-V5DEVRCB : SM	PHV5 consolidated EVRCB + EVEVB DSP image
V5DISL	PSU-V5DSPISLP : SM	PHV5 ISLP DSP image
V6D13K	PSU-V6DSP13K : SM	PHV6 consolidated 13K + EVRC DSP image
V6DCKT	PSU-V6DSPCKT : SM	PHV6 PVA circuit vocoder DSP image
V6DCVEV	PSU-V6DCVEV : SM	PHV6 PVA circuit vocoder with EVRC+EVRCB DSP image
V6DEVRB	PSU-V6DEVRCB : SM	PHV6 consolidated EVRCB + EVEVB DSP image
V6DPKT	PSU-V6DSPPKT : SM	PHV6 PVA packet vocoder DSP image
V6DPVEV	PSU-V6DPVEV : SM	PHV6 PVA packet vocoder with EVRC+EVRCB DSP image
V7DSPA	PSU-V7DSPA : SM	PHV7 DSP image

The following table maps TARGET names to allowed UPD commands.

FUNCR refers to UPD:APPLY-FUNCR.

FILER refers to UPD:APPLY-FILER.

BYTER refers to UPD:APPLY-BYTER.

The remaining columns are UPD:VFYCON, UPD:RCVRY, UPD:HSCHK, UPD:DUMPCORE, and UPD:PMPPERF.

The • symbol indicates the TARGET is valid for the input message declared in the column header. The . symbol indicates the target is not allowed.

Table 2 TABLE MAPPING TARGET TO ALLOWED UPD COMMANDS

TARGET	FUNCR	FILER	BYTER	VFYCON	RCVRY	HSCHK	DUMPCORE	PMPPERF
AM	•	•	•	•	•	.	.	.
AMPATH	•	•	.	.	.	.	.	.
ASM	.	.	.	•	.	.	.	.
CF3FW	.	•	.	•	•	•	•	•
CF3HW	.	•	.	•	•	•	•	•
CF4FW	.	•	.	•	•	•	•	•
CF4HW	.	•	.	•	•	•	•	•
CM3	.	**a**	.	•	.	.	.	•
CM3MSGSAP	•	.	•	•	.	•	.	.
CM3MSGSIP	.	.	.	•	.	.	.	.
CM3MSGSROM	.	.	.	.	.	.	.	.
CM3ONTCAP	.	.	.	•	.	.	.	.
CM3ONTCIP	.	.	.	•	.	.	.	.
CM3ONTCROM	.	.	.	.	.	.	.	.

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CSCPDG	•	•	.	•	•	•	•	.
CSCPSAS	•	•	.	•	•	•	•	•
DDMA	•	•	.	•	•	•	•	.
DNUSCC	•	•	.	•	•	•	•	•
DNUSTMX	•	•	.	•	•	•	•	•
DSC3	•	•	.	•	•	•	•	.
DSC4	•	•	.	•	•	•	•	.
DSP13K	.	•	.	•	•	•	•	•
DSP8K	.	•	.	•	•	•	•	•
DSPEVRC	.	•	.	•	•	•	•	•
EMULATOR	.	.	.	•	.	.	.	.
GDSF	•	•	.	•	•	•	•	•
GDSF2	•	•	.	•	•	•	•	•
HDSU	•	•	.	•	•	•	•	.
HSAS	•	•	.	•	•	•	•	.
IDCUCCP	•	•	.	•	•	•	•	•
IDCUDLP	•	•	.	•	•	•	•	•
IDCULSI	•	•	.	•	•	•	•	•
IP22	.	•	.	•	•	•	•	•
IP3S	.	•	.	•	•	•	•	•
IP4F	.	•	.	•	•	•	•	•
IP4I	.	•	.	•	•	•	•	•
IP4IF	.	•	.	•	•	•	•	•
ISLU	•	•	.	•	•	•	•	•
ISLU2	•	•	.	•	•	•	•	•
ISTF	•	•	.	•	•	•	•	•
LDSF	•	•	.	•	•	•	•	•
LDSF2	•	•	.	•	•	•	•	•
LDSU	•	•	.	•	•	•	•	•
MH32	•	.	.	•	•	•	•	.
MHEIB	•	.	.	•	•	•	•	.
MHLB	•	.	.	•	•	•	•	.
MHPPC	•	.	.	•	•	•	•	.
MHPPCLB	•	.	.	•	•	•	•	.
MHPROM	.	**b**	.	•	•	•	.	•
ODMA	•	•	.	•	•	•	•	•
OIOP	•	•	.	•	•	•	•	•
OIU24	•	•	.	•	•	•	•	•
OIUIP	•	•	.	•	•	•	•	•
PF3FW	.	•	.	•	•	•	•	•
PF3HW	.	•	.	•	•	•	•	•
PF3IFW	.	•	.	•	•	•	•	•
PF3IHW	.	•	.	•	•	•	•	•
PF4FW	.	•	.	•	•	•	•	•
PH22I	•	•	.	•	•	•	•	•
PH22S	•	•	.	•	•	•	•	•
PH2A	•	•	.	•	•	•	•	•
PH2G	•	•	.	•	•	•	•	•
PH31S	•	•	.	•	•	•	•	•
PH33Q	•	•	.	•	•	•	•	•
PH3C	•	•	.	•	•	•	•	•
PH3S	•	•	.	•	•	•	•	•
PH4A	•	•	.	•	•	•	•	•
PH4G	•	•	.	•	•	•	•	•
PH4I	•	•	.	•	•	•	•	•
PH50FS	.	•	.	•	•	•	•	•
PH50FW	.	•	.	•	•	•	•	•
PH50PA	.	•	.	•	•	•	•	•
PHA1A	•	•	.	•	•	•	•	•
PHA2A	•	•	.	•	•	•	•	•
PHE2E	•	•	.	•	•	•	•	•
PHE2S	•	•	.	•	•	•	•	•
PHE3B	•	•	.	•	•	•	•	•

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PHE3N	•	•	.	•	•	•	•	•
PHE4I	•	•	.	•	•	•	•	•
PHV1C	•	•	.	•	•	•	•	•
PHV3C	•	•	.	•	•	•	•	•
PHV4C	•	•	.	•	•	•	•	•
PHV5C	•	•	.	•	•	•	•	•
PHV6C	•	•	.	•	•	•	•	•
PHV7C	•	•	.	•	•	•	•	•
PHV7HW	.	•	.	•	•	•	•	•
PI	•	.	.	•	•	•	•	.
PI2	•	.	.	•	•	•	•	.
RAF	•	•	.	•	•	•	•	•
SAS	•	•	.	•	•	•	•	•
SM	•	•	•	•	•	•	•	.
SM2K	•	•	•	•	•	•	•	.
SM2KFX	•	•	•	•	•	•	•	.
SM2KPROM	.	**b**	.	•	•	•	.	•
V3DACP	.	•	.	•	•	•	•	•
V3DVSP	.	•	.	•	•	•	•	•
V4D13K	.	•	.	•	•	•	•	•
V4D8K	.	•	.	•	•	•	•	•
V4DACP	.	•	.	•	•	•	•	•
V4DEVR1	.	•	.	•	•	•	•	•
V4DEVR2	.	•	.	•	•	•	•	•
V4DEVR3	.	•	.	•	•	•	•	•
V4DISL	.	•	.	•	•	•	•	•
V4DVSP	.	•	.	•	•	•	•	•
V5D13K	.	•	.	•	•	•	•	•
V5D8K	.	•	.	•	•	•	•	•
V5DACP	.	•	.	•	•	•	•	•
V5DEVR1	.	•	.	•	•	•	•	•
V5DEVR2	.	•	.	•	•	•	•	•
V5DEVR3	.	•	.	•	•	•	•	•
V5DEVRB	.	•	.	•	•	•	•	•
V5DISL	.	•	.	•	•	•	•	•
V6D13K	.	•	.	•	•	•	•	•
V6DCKT	.	•	.	•	•	•	•	•
V6DCVEV	.	•	.	•	•	•	•	•
V6DEVRB	.	•	.	•	•	•	•	•
V6DPKT	.	•	.	•	•	•	•	•
V6DPVEV	.	•	.	•	•	•	•	•
V7DSPA	.	•	.	•	•	•	•	•

Notes:

a. All CM3 targets (except CM3MSGSAP) are file replaced using the `UPD:APPLY,PKGFILER,TARGET=CM3` entry in the MSGS file.

b. MHPROM and SM2KPROM are file replaced using the `UPD:APPLY,PKGFILER,TARGET=SM2KPROM` entry in the MSGS file.

2. REFERENCES

Input Message(s):

```
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:DUMPCORE
UPD:HSCHK
UPD:PMPPERF
UPD:RCVRY
```

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```
UPD:VFYCON
```

Output Message(s):

```
UPD:APPLY
UPD:DUMPCORE
UPD:HSCHK
UPD:PMPPERF
UPD:RCVRY
UPD:VFYCON
```

MCC Display Page(s):

1950	PROGRAM UPDATE MAINTENANCE
1990	INSTALL BWM

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APP:TRANS-TESTS

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. TRANSMISSION TESTS

Table 1 TYPES OF TRANSMISSION TESTS

Test Type	Measurement	Optimum Level	Filter	Remarks
100	Level Noise	0dBm0 --	1004Hz C-message	Near end
100RL	Level Noise Echo return loss Singing return loss (low frequency) Singing return loss (high frequency)	0dBm0 -- Band-limited noise Band-limited noise Band-limited noise	1004Hz C-message -- -- --	Near end
100ERL	Level Noise Echo return loss	0dBm0 -- Band-limited noise	1004Hz C-message	Near end
100SRL	Level Noise Singing return loss (low frequency)	0dBm0 -- Band-limited noise	1004Hz C-message	Near end
100SHI	Level Noise Singing return loss (high frequency)	0dBm0 -- Band-limited noise	1004Hz -- C-message	Near end
102LB	Level	0dBm0	1004Hz	Near end
102	Level Noise	0dBm --	1004Hz C-message	Both ends
105ALL	--	--	--	All 105 and CSTS not run
105L	Level	0dBm0	1004Hz	Both ends
105RN	Noise	--	C-message	Near end
105N	Noise	--	C-message	Far end
105L4	Level	-16dBm0	404Hz	Both ends
105L10	Level	-16dBm0	1004Hz	Both ends
105L28	Level	-16dBm0	2804Hz	Both ends
105NT	Noise with tone	--	1004Hz notch	Both ends
105ERL	Echo return loss	Band-limited noise	--	Both ends
105SRL	Singing return loss (low frequency)	Band-limited noise	--	Both ends
105SHI	Singing return loss (high frequency)	Band-limited noise	--	Both ends
106	Far to near loss Near to far loss	0dBm0 --	-- --	TR looped to T1 R1
CONT	Voice path assurance test tones and levels are trunk dependent.			CCS trunks only
PVELBK	Level Noise	0dBm --	-- --	Speech handler trunks only

Notes:

a. The standard 105 test includes: 105L, 105RN, 105N, and 105NT.

b. The 105RL (return loss) test includes: 105ERL, 105SRL, and 105SHI.

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c. The 105GS (gain slope) test includes: 105L4, 105L10, and 105L28.

d. The 105ALL test includes the following 105 test line tests: 105L, 105RN, 105N, 105L4, 105L10, 105L28, and 105NT.

e. 102LB test executes 1004 Hz at 0dB transmission and C-message noise filter used in measurement for noise. This test was designed for APX BSSAPS2 and IVT trunks.

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APP:TRFC-SECTION

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. APPENDIX: TRAFFIC SECTIONS

This appendix identifies the sections of the 30-minute traffic report (TRFC30) by section number and section name.

Some section names are followed by an 'x' which denotes that an identifier is required for requests to allow (ALW) or inhibit (INH) that section for TRFC30 for collection (CLCT) and/or for output to the receive-only printer (ROP). The descriptions (contents) for those sections include "For CLCT" and/or "For ROP/OP" with information as to what identifiers are required for CLCT and/or ROP/OP.

For the sections that are limited for collection the section description includes "For CLCT"; the input message format is for example:

```
{ALW|INH}:TRFC30,CLCT,PSPORT=sm-shelf-dslg
```

The description also indicates the maximum number of units that can be collected.

Some of those sections have limited ROP output and when "for ROP/OP" specifies "'x' equals one of the following" and lists the possible keywords (UNIT, HIGH, LOW, HILO); the input message format is for example:

```
{ALW|INH}:TRFC30,ROP,PSPORT,HIGH=1
```

For other sections that have limited ROP "for ROP/OP" specifies "'x' = some identifier; the input message format is for example:

```
{ALW|INH}:TRFC30,ROP,TG="trunk group identifier(s)"
```

The sections whose section names are followed by 'x' can also be requested for output (OP) (of the most recent report) using identifiers for example:

```
OP:TRFC30,PSPORT,HIGH=2
```

in which case the requested records are output (if available). However, if no identifiers are provided for example:

```
OP:TRFC30,PSPORT
```

the previously allowed records are output (if any were allowed).

Other section names are followed by '[o]' which denotes that an identifier is optional for ALW, INH, or OP input messages. For these sections there are no "For CLCT" cases since everything generated will be collected; the option applies only to output. If no identifiers are specified the default is that all records collected will be output for example:

```
OP:TRFC30,CORC
```

However, specific records can be output using keywords for example:

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```
OP:TRFC30,CORC,UNIT=sm
```

To allow (ALW) or inhibit (INH) specific records using keywords for example:

```
{ALW|INH}:TRFC30,ROP,CORC,UNIT=sm
```

For sections where there is no 'x' or '[o]' (that is, cannot accept an identifier)

```
ALW:TRFC30,ROP,"section name"
```

will cause all collected records to print every time the report is generated until inhibited for output by

```
INH:TRFC30,ROP,"section name".
```

While:

```
OP:TRFC30,"section name"
```

will print every record collected for the most recent report.

Unless specifics are provided "for CLCT", ALW/INH for CLCT requires only the section name: ALW/INH for TRFCH requires only the section name.

NOTE: When entering variables, separate the field and its variable with an equal sign. For lists, elements are hyphen (-) separated.

Section Name	Section Number	Contents
ACDBRCS	182	Automatic call distributor (ACD)/business and residential customer services (BRCS) measures.
ACSR x	108	Automatic customer station rearrangement (ACSR) measures. Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = ACSR group ID, a maximum of six IDs can be entered.
ADPIDB x	229	AIU directly-connected peripheral interface data bus counts. For CLCT/ROP, first allow this section for collection or printing ('x' is not used), then enable at least one SHELF and AIU using RC/V Views 13.7 (MEASUREMENT COLLECTION SELECTIVITY) and 13.8 (MEASUREMENT RANGE SELECTIVITY). For OP, 'x' is a SM-SHELF-AIU set and is identified completely by SM#-SHELF#-AIU#. A maximum of six (6) sets can be entered.
AIU	216	Access interface unit (AIU) counts. Allow this section for collection and then select AIU(s) using RC/V Views 13.7 and 13.8. For ROP printing, all AIUs selected for collection are printed when the ALW input message is used. For ROP printing, allow this section first and then select AIUs using RC/V Views 13.7 and 13.8. If no AIUs are selected, the default set of AIUs selected for collection will be printed.
AIULC x	218	AIU line counts for a specific AIU. For CLCT, allow this section for collection and then select one single AIU using RC/V Views 13.7 and 13.8. An AIU is defined as a SM#-AIU# and a maximum of one AIU can be requested through RC/V.

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		For ROP/OP, 'x' is a line component and is identified completely by SM#-AIU#-AP#-LC#. A maximum of six (6) line component patterns can be entered where SM#-AIU# is consistent. For ROP printing, allow this section first (without specifying 'x') and then select individual lines using RC/V Views 13.7 and 13.8. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
AIULN x	217	AIU line counts. For CLCT, allow this section for collection and then select a line(s) using RC/V Views 13.7 and 13.8. A line is defined as a SM#-AIU#-AP#-LC# and a maximum of 640 lines can be requested through RC/V. For ROP/OP, 'x' is a line and is identified completely by SM#-AIU#-AP#-LC#. A maximum of six (6) lines can be entered. For ROP printing, allow this section first (without specifying 'x') and then select individual lines using RC/V Views 13.7 and 13.8. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
APDL	59	Application processor data link (APDL) measures.
ANNC	46	Announcement services measures.
APSODB x	228	AIU Packet Switching On-Demand B-channel counts. For CLCT/ROP, first allow this section for collection or printing ('x' is not used), then enable at least one AIU using RC/V Views 13.7 and 13.8. For OP, 'x' is a SM-AIU set and is identified completely by SM#-AIU#. A maximum of six (6) AIUs can be entered.
ARS x	35	Automatic route selection (ARS) measures. For ROP/OP, where 'x' = the lead (MCRTIDX) of an ARS pattern group, a maximum of five patterns can be entered.
ASP	231	Advanced service platform non toll free. ***NOTE:*** The output depends on OFID 1006. If OFID 1006 is switched off then the section 231 (ASP) with single precision counters can be used. For OFID 1006 switched on the section 85 (ASPN) with double precision counters can be used (5E16(2)+).
ASPLG	117	Advanced service platform large.
ASPN	85	Advanced service platform non toll free (5E16(2)+) ***NOTE:*** The output depends on OFID 1006. If OFID 1006 is switched off then the section 231 (ASP) with single precision counters can be used. For OFID 1006 switched on the section 85 (ASPN) with double precision counters can be used.
ASPTF	232	Advanced service platform toll free. ***NOTE:*** The output depends on OFID 1006. If OFID 1006 is switched off then the section 232 (ASPTF) with single precision counters can be used. For OFID 1006 switched on the section 86 (ASPTFN) with double precision counters can be used (5E16(2)+).
ASPTFN	86	Advanced service platform toll free (5E16(2)+)

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		NOTE: The output depends on OFID 1006. If OFID 1006 is switched off then the section 232 (ASPTF) with single precision counters can be used. For OFID 1006 switched on the section 86 (ASPTFN) with double precision counters can be used.
ATMLNK	167	ATM link measurements (5E17(1)+) For OP request, x equals `SM-PSU-LINK-LINKTYPE`. Where: `SM` = Switching module (1-192). `PSU` = Packet switch unit (0-1). `LINK` = Link number (1-10). `LINKTYPE` = Link type. Valid value(s): `B` = ATM backhaul. `P` = ATM PSU link using PHA2.
ATMPVC	43	ATM Permanent Virtual Circuit Measurements (5E18(1)+) For OP request, x equals `SM-PSU-LINK-FARSN-FARCA-AT`. Where: `SM` = Switching module (1-192). `PSU` = Packet switch unit (0-1). `LINK` = Link number (1 - 10). `FARSN` = Far PSU subnetwork ID (0-3). When PSU CA expansion feature is active, the range of far subnet ID is 0 to 3. Otherwise, value will be 0. `FARCA` = Far PSU community address (1-254). `AT` = Application type Valid value(s): `H` = High. `L` = Low.
ATMQOSPS x	239	ATM quality of service for PSU to PSU connection (5E17(1)+). For OP request, x equals `NEARCA-LINK-FARSN-FARCA-AT-DIR`. Where: `NEARCA` = Near PSU community address (1-254). `LINK` = Link number (1 - 10). `FARSN` = Far PSU subnetwork ID (0-3). When PSU CA expansion feature is active, the range of far subnet ID is 0 to 3. Otherwise, value will be 0. `FARCA` = Far PSU community address (1-254). `AT` = Application type Valid value(s): `H` = High. `L` = Low. `DIR` = ATM PSU-PSU connection PM direction. Valid value(s): `I` = Incoming. `O` = Outgoing.
ATTG x	33	Attendant group (ATTG) measures.

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		Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = attendant group ID, a maximum of five IDs can be entered.
BCHNEG	80	B-channel negotiation (BCHNEG). For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A BCHNEG is defined as a BTG# and a maximum of 640 components can be requested. For OP request, where 'x' equal BTG#, a maximum of six units can be entered.

BCLID x	147	Bulk calling line identification (BCLID).
		
		For CLCT, `[ALW|INH]:TRFC30,CLCT,BCLID=x-x-x-x-x-x-x-x-x` where 'x' equals business customer identifier (BCID), a maximum of 25 can be studied in an office; nine can be entered with a single input request.
		
		ALL (with INH only) inhibits all BCIDs that are allowed for collection; the list of BCIDs is saved.
		
		PREV (with ALW only) reactivates the previously allowed list of BCIDs if PREV is the first ALW request after the list was inhibited.
		
		For ROP/OP, where 'x' equals one of the following:
		`UNIT=Business customer identifier#`
		`HIGH=count#`
		`LOW=count#`
		`HILO=count#`
		a maximum of six units or one count can be entered.

BEARERLNK o	208	Bearer link measurements (5E16(2)+)
		
		For CLCT and ROP printing, enable components using RC/V View 13.7 and 13.8 before allowing this section for collection and ROP.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,BEARERLNK`
		
		For CLCT, you can use
		
		o equals `ALL[,GMSM]` for ALW,
		
		o equals `ALL` for INH,
		
		with INH, inhibits all SM-BNID from collection and reporting, with ALW, allows all existing SM-BNID.
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,BEARERLNK`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,BEARERLNK`
		
		Request for immediate output:

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		OP:TRFC30,BEARERLNK=x-x-x-x-x-x (max of 6 units), where x=SM-BNID. Or, OP:TRFC30,BEARERLNK, will print whatever is allowed on RC/V view.
BICCG [o]	205	BICC group measurements (BICCG) [5E15 - 5E19(1)]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A BICCG is defined as a BICCG#. For OP request, 'o' is a BICCG and is identified completely by a: BICCG# Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual. A maximum of thirteen line patterns can be entered.
BICCSM [o]	207	BICC group/SM measurements (BICCSM) [5E16(1) - 5E19(1)]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A component is defined as a BICCG#-SM#. For OP request, 'o' is a BICCG-SM set and is identified completely by a: BICCG#-SM#. Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual. A maximum of seven (7) sets can be entered.
BNID x	9	Bearer network ID (BNID) measurements office totals [5E20(1)+]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,BNID To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,BNID To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,BNID Request for immediate output OP:TRFC30,BNID=x-x-x-x-x-x (max of 15 units), where x=BNID#. or OP:TRFC30,BNID will print whatever is allowed for ROP printing on RC/V 13.7 or 13.8 view.
BRCF x	29	Business and residential customer feature (BRCF) measures. Enable groups using RC/V View 13.3 (BRCS MEASUREMENTS) before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = BRCS feature (feature ID), a maximum of five features is allowed.

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		NOTE: Modular features for group data are not included in this output message although recent change (RC) may allow a feature to be input on RC/V View 13.3 (BRCS MEASUREMENTS). Due to the real-time impact involved to deny the user the ability to input these features, this will not be done. The following is a list of output messages and the features they are dedicated to: OP:TRFC30-TRMG - Terminal Group OP:TRFC30-IDP - Individual Dialing Plan OP:TRFC30-IDP - Simulated Facilities Group OP:TRFC30-IDP - Attendant Group OP:TRFC30-IDP - Multiline Hunt Group OP:TRFC30-QMLHG - Queuing for Multiline Hunt Groups OP:TRFC30-QMLHG - Queuing Announcements for Multiline Hunt Groups OP:TRFC30-QTG - Queuing for Trunk Groups OP:TRFC30-TQA - Trunk Group Queuing Announcement OP:TRFC30-PSGRP - ISDN Packet Switching Group OP:TRFC30-EDSC - ISDN BRCS Electronic Directory Service OP:TRFC30-MGSC - ISDN BRCS Message Service OP:TRFC30-MGSG - ISDN BRCS Message Service Multiline Hunt Group OP:TRFC30-LASS - Local Area Signaling Services"
BRCS	26	Business and residential customer services (BRCS) office totals.
CDN x	128	Customer directory number (CDN) counts reported on a directory number (DN) basis (analog lines only). For CLCT, 'x' equals one of the following: `DN=DN(7 digits)` = A maximum of six hyphen separated DNs can be entered with a single input request. (This applies for {ALW|INH} ROP also). `DN=ALL` = (with INH only) Inhibits all DNs that are currently allowed for collection; the list of DNs is saved. `DN=PREV` = (with ALW only) Reactivates the previously inhibited list of DNs if PREV is the first ALW request after the list was inhibited. `RANGE=DN1&&DN2` = This section has introduced the allowing/inhibiting of a DN range to ease data entry. This range is limited to 25 DNs. DN1 and DN2 are the lower and upper bounds of the range of DNs respectively. A maximum of 250 DNs can be studied in an office, where all DNs studied can reside on any one SM. Up to 20 DNs under study may be allowed for ROP output.
CMIX	253	Call Mix (CMIX) measurements [5E16(1)+].
CMP	126	Communication module processor (CMP).

CORC [o]	27	Customer originated recent change (CORC) measures.
		
		For ROP/OP, where 'o' equals one of the following:
		`UNIT=SM#`
		`HIGH=count#`
		`LOW=count#`
		`HILO=count#`
		a maximum of six switching modules (SMs) or one count can be entered.

CT	5	Call type (CT) information.

CTS x	125	Control time slot (CTS) link occupancy measurements.
		
		For ROP/OP, where 'x' equals one of the following:
		`UNIT=SM#`
		`HIGH=count#`

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		LOW=count# HILO=count# a maximum of six SMs or one count can be entered.
CVTGTT x	174	CV trunk group transcoding type (CVTGTT) measurements [5E20(1)+]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,CVTGTT To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,CVTGTT To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,CVTGTT Request for immediate output OP:TRFC30,CVTGTT=x-x-x-x (max of 4 units), where x=TG#. or OP:TRFC30,CVTGTT will print whatever is allowed for ROP printing on RC/V 13.7 or 13.8 view.
DCLU	21	Digital carrier line unit (DCLU).
DLINE x	222	Digital network unit synchronous optical network (SONET) (DNU-S) - lines counts. For CLCT and ROP printing, enable one or more lines using RC/V Views 13.7 and 13.8 before allowing this section for collection. A line is defined as a SM#-DNUS#-RDT#-LINE# and a maximum of 512 lines can be requested through RC/V. For OP request, 'x' is a line and is identified completely by a IDLC network equipment number (INEN): SM#-DNUS#-RDT#-LINE#. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of six line patterns can be entered.
DLN	66	Direct link node (DLN).
DLTU	16	Digital line/trunk unit (DLTU).
DMLHG	65	Defense switched network/automatic voice network (DSN/AUTOVON) multi-line hunt group (MLHG) (DMLHG). The same MLHGs allowed for section 34 (MLHG) will print for DMLHG.
DNUS	189	Digital networking unit-SONET (DNU-S).
DODB x	223	DNU-S - ODB counts. For CLCT and ROP printing, enable a maximum of one DNU-S using RC/V Views 13.7 and 13.8 before allowing this section for collection. A individual DNU-S is defined as a SM#-DNUS# For OP request, where 'x' equals SM#-DNUS#-PSU#-PSU_SHELF#, a maximum of six units can be entered.
DPIDB x	106	ISDN packet switching directly connected peripheral interface data bus (DPIDB) counts. For CLCT, where 'x' equals SM#, a maximum of one SM can be entered.

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		For ROP/OP, where 'x' equals one of the following: UNIT=ISLU#-PSUSHELF# HIGH=count# LOW=count# HILO=count# a maximum of six units or one count can be entered.
DSIG	36	Direct signaling (DSIG).
DSL x	77	Integrated services digital network (ISDN) digital subscriber line (DSL). For CLCT, where 'x' equals one of the following (only one of the study sets can be active): LCEN=SM#-ISLU# or LCKEN=SM#-ISLU# for allowing all (up to maximum of 1024) DSLs on one ISLU. A maximum of one ISLU can be entered. For allowing individually selected DSLs served by an ISLU (LCEN) or an ISLU2 (LCKEN). A maximum of 1024 can be selected, four per request. LCEN=SM#-ISLU#-LGC#-LC# LCKEN=SM#-ISLU#-LG#-LB#-LCKT# PREV (with ALW only) reactivates the previously allowed individually selected DSLs if PREV is the first request after an INH-ALL. ALL (with INH only) inhibits whichever study set is allowed for collection. If an individual study set is allowed for collection then the list of DSLs will be saved when the section is inhibited for collection. If an ISLU study set is allowed for collection, nothing is saved when it is inhibited. For ROP/OP, where 'x' equals one of the following: LCEN=SM#-ISLU#-LGC#-LC# LCKEN=SM#-ISLU#-LG#-LB#-LCKT# HIGH=count# HILO=count# LOW=count# a maximum of four DSLs or one count can be entered.
DSLG	52	Channel Group Measurements.
DSNOFC	47	DSN/AUTOVON office totals.
DSNTG	48	DSN/AUTOVON trunk group (DSNTG); the same trunk groups allowed for section 12 (TG) will print for this section.
E911	148	Enhanced 911 (E911) measurements.
ECDN x	235	Expanded customer directory number (ECDN) counts reported on a directory number (DN) basis (analog lines only). To allow/inhibit for collection ALW|INH:TRFC30,CLCT,ECDN To allow/inhibit for output ALW|INH:TRFC30,ROP,ECDN Request for immediate output OP:TRFC30,ECDN=x-x-x-x-x-x (max of 6 DNs) where

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		x=NPA-NXX-XXXX and hyphens are required both within the DNs and between the DNs, as shown. OP:TRFC30,ECDN (will print whatever is allowed on RV/V 13.10) A maximum of 250 DNs can be studied in an office, where all DNs studied can reside on any one SM.
ECPSRVT x	247	Executive cellular processor service type (ECPSRVT) measurements. For CLCT/ROP, first allow the section for collection or printing, then enable at least one SM, PSU and SRV_T using RC/V Views 13.7 and 13.8. For OP, 'x' is a SM-PSU-SRV_T set. A maximum of five (5) sets can be entered.
EDSC	73	ISDN BRCS electronic directory customer counts. Enable groups using RC/V View 24.9 before allowing this section (or ALL) for collection.
EPCS x	236	Expanded Personal communications services directory number (EPCS) special study counts reported on a directory number (DN) basis (EPCS lines only). To allow/inhibit for collection ALW|INH:TRFC30,CLCT,EPCS To allow/inhibit for output ALW|INH:TRFC30,ROP,EPCS Request for immediate output OP:TRFC30,EPCS=x-x-x-x-x-x (max of 6 DNs) where x=NPA-NXX-XXXX and hyphens are required both within the DNs and between the DNs, as shown. OP:TRFC30,EPCS (will print whatever is allowed on RC/V 13.10) A maximum of 250 EPCS DNs can be studied in an office, where all DNs studied can reside on any one SM.
FRBC x	248	Frame relay bearer channel (FRBC) counts. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A individual PSUEN is defined as a SM#-PSU#-SHELF#-CHGRP#-CHANNEL# For OP request, where 'x' equals SM#-PSU#-SHELF#-CHGRP#-CHANNEL#, a maximum of four units can be entered.
FRPH x	193	Frame relay protocol handler (FRPH) counts. For CLCT, where 'x' equals the following: SM#-PSU#-SHLF#-CHGRP#
GETSHPC	17	Government Emergency Telecommunications Service (GETS) high probability call completion total office. To allow/inhibit for collection:

		ALW|INH:TRFC30,CLCT,GETSHPC To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,GETSHPC To allow/inhibit for output on traffic channel: ALW|INH:TRFC30,TRFCH,GETSHPC To request for output on demand: OP:TRFC30:GETSHPC
HLSC	8	High-level service circuits (HLSC).
HSL x	201	High Speed Link Measurements (5E16+). For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,HSL To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,HSL To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,HSL Request for immediate output OP:TRFC30,HSL=SM#-SET#-MEM# (max of 6 units). or OP:TRFC30,HSL will print whatever is allowed on RC/V view.
HSLS x	202	High Speed Link Set Measurements (5E16+). For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,HSLS To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,HSLS To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,HSLS Request for immediate output OP:TRFC30,HSLS=SM#-SET# (max of 4 units).

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		or OP:TRFC30,HSLS will print whatever is allowed on RC/V view.
HSPD x	244	High Speed Packet Data trunk group measurements. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,HSPD To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,HSPD To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,HSPD Request for immediate output OP:TRFC30,HSPD=x-x-x-x-x-x (max of 6 units), where x=HSPD trunk group number. or OP:TRFC30,HSPD will print whatever is allowed on RC/V view.
IA	6	Ineffective attempts (IA).
IBROFC	72	ISDN BRCS and Analog Office totals.
IC x	164	InterLATA carrier (IC) measurements. For ROP/OP, where 'x' equals FGRP-CIC#, the value FGRP may be either 'B' or 'D' for feature group B and D respectively. The value for CIC# is in the range 0 - 9999. A maximum of 10 carrier IDs can be entered.
ICL	37	Intra-RSM communication link (ICL) measures.
IDP x	31	Individual dialing plan (IDP) measures. Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = IDP group, a maximum of five groups can be entered.
IDPIDB x	140	Integrated digital carrier unit (IDCU) directly connected peripheral interface data bus (DPIDB) counts.

ILINE x	141	IDCU line counts.
		
		For CLCT, where 'x' equals SM#-IDCU#-RT#-RTLINE#, a maximum of 512 lines can be entered, six per request.
		
		PREV (with ALW only) reactivates the previously allowed list of lines if PREV is the first ALW request after the list was inhibited.
		
		ALL (with INH only) inhibits all lines that were allowed for collection; the list of lines is saved.
		
		For ROP/OP, where 'x' equals one of the following:
		`UNIT=SM#-IDCU#-RT#-RTLINE#`
		`HIGH=count#`
		`LOW=count#`
		`HILO=count#`
		a maximum of six units or one count can be entered.

IODB x	142	IDCU on-demand B-channel (ODB) counts. For CLCT, where 'x' equals SM#-IDCU#, a maximum of one SM-IDCU pair can be entered.

IPBH x	154	IP backhaul.
		
		For CLCT and ROP printing, enable components using RC/V Views 13.7 (MEASUREMENT COLLECTION SELECTIVITY) and 13.8 (MEASUREMENT RANGE SELECTIVITY) before allowing this section for collection and ROP. A component is a SM#-PSU#-PHGRP#.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,IPBH`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,IPBH`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,IPBH`
		
		Request for immediate output:
		
		`OP:TRFC30,IPBH=x-x-x-x-x-x-x-x` (max of 8 units), where `x=SM#-PSU#-PHGRP#`.
		
		OP:TRFC30,IPBH will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.

IPBHSUP x	153	IP backhaul supplementary.
		
		For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. A component is a SM#-PSU#-PHGRP#.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,IPBHSUP`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,IPBHSUP`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,IPBHSUP`
		
		Request for immediate output:
		
		`OP:TRFC30,IPBHSUP=x-x-x-x-x-x-x-x` (max of 8 units), where `x=SM#-PSU#-PHGRP#`.
		
		OP:TRFC30,IPBHSUP will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.

IPIDB x	139	IDCU peripheral interface data bus (PIDB) counts. To allow/inhibit for collection ALW|INH:TRFC30,CLCT,IPIDB

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		To allow/inhibit for output ALW|INH:TRFC30,ROP,IPIDB=x where 'x' equals SM#-IDCU#. It is possible to allow at most 10 IDCUs for ROP at the moment (5 per request). Request for immediate output OP:TRFC30,IPIDB

IPSHO x	122	IP soft handoff measurements [5E20(1)+].
		
		For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. .P A component is a SM#-PSU#-PHGRP#.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,IPSHO`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,IPSHO`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,IPSHO`
		
		Request for immediate output:
		
		`OP:TRFC30,IPSHO=x-x-x-x-x-x-x` (max of 7 units), where x=SM#-PSU#-PHGRP#.
		
		Or `OP:TRFC30,IPSHO` will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.

IPSHOSUP x	130	IP soft handoff supplemental measurements [5E20(1)+].
		
		For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.
		
		A component is a SM#-PSU#-PHGRP#.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,IPSHOSUP`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,IPSHOSUP`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,IPSHOSUP`
		
		Request for immediate output:
		
		`OP:TRFC30,IPSHOSUP=x-x-x-x-x-x` (max of 6 units), where x=SM#-PSU#-PHGRP#.

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		Or OP:TRFC30,IPSHOSUP will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.
IPSHOCA x	138	IP soft handoff community address measurements [5E20(1)+]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. A component is a SM#-PSU#-Far Subnet ID#-Far Community Address#. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,IPSHOCA To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,IPSHOCA To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,IPSHOCA Request for immediate output: OP:TRFC30,IPSHOCA=x-x-x-x-x (max of 5 units), where x=SM#-PSU#-Far Subnet ID#-Far Community Address#. Or OP:TRFC30,IPSHOCA will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.
IPSHOCASUM x	28	IP soft handoff community address summary measurements [5E20(1)+]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. A component is a SM#-PSU#. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,IPSHOCASUM To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,IPSHOCASUM To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,IPSHOCASUM Request for immediate output: OP:TRFC30,IPSHOCASUM=x-x-x-x-x-x-x-x-x (max of 9 units), where x=SM#-PSU#. Or OP:TRFC30,IPSHOCASUM will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.
IRT x	143	IDCU remote digital terminal (RT) counts. For CLCT, where 'x' equals one of the following (only one of the study sets can be active at

		one time): GROUP=SM#-IDCU# for allowing all RTs on an IDCU. A maximum of 25 SM-IDCU pairs can be entered, eight per request. PREV (with ALW only) reactivates the previously allowed study set if PREV is the first request after an INH. ALL: • with INH - inhibits whichever study set is allowed for collection. The study set is saved. • with ALW - allows all existing (but not more than 800) RTs for collection. UNIT=SM#-IDCU#-RT# for allowing individual RTs. A maximum of 800 RTs can be entered, eight per request. For ROP/OP, where 'x' equals one of the following: UNIT=SM#-IDCU#-RT# HIGH=count# LOW=count# HILO=count# a maximum of six units or one count can be entered.
IPOIU o	259 260	IP OIU measurements (5E16(2)+) For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW:TRFC30,CLCT,IPOIU,PART={a|all}[,all[,b]] INH:TRFC30,CLCT,IPOIU,PART={a|all}[,all] where "a" is an individual part number. and "b" is a global maintenance switching module. For CLCT, you can use 'o' equals ALL, with INH, inhibits all SM-OIU-PG from collection and reporting with ALW, allows all existing SM-OIU-PG. To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,IPOIU,PART={a|all} where "a" is an individual part number. To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,IPOIU,PART={a|all} where "a" is an individual part number. Request for immediate output: OP:TRFC30,IPOIU=x-x-x-x-x-x,PART={a|all}

		where "x" = SM-OIU-PG and "a" is an individual part number. or OP:TRFC30,IPOIU,PART={a|all} where "a" is an individual part number, will print whatever is allowed on RC/V view.
ISLU	49	Integrated services line unit (ISLU).
ISM [o]	53	ISDN switching module (ISM). For ROP/OP, where 'o' equals one of the following: UNIT=SM# HIGH=count# LOW=count# HILO=count# a maximum of six SMs or one count can be entered.
ISOFC	50	ISDN office totals (ISOFC).
ISPI [o]	51	Packet interface (PI) measurements. For ROP/OP, where 'o' equals one of the following: UNIT=SM# HIGH=count# LOW=count# HILO=count# a maximum of six SMs or one count can be entered.
ISUP	120	ISDN user part (ISUP) office totals.
IPT	198	Intelligent peripheral trunks (IPT). For CLCT, a maximum of 25 can be studied in an office using RC/V. If none is allowed for collection then inhibit collection will be set. For ROP/OP, execute: ALW:TRFC30,rop,IPT OP:TRFC30,IPT
LAG x	251	Line Access Gateway (LAG) measurements [5E16(1) - 5E19(1)]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,LAG To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,LAG To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,LAG Request for immediate output OP:TRFC30,LAG=x-x-x-x-x-x (max of 6 units), where x=SM#-LAG#.

		or OP:TRFC30,LAG will print whatever is allowed on RC/V view.
LASS	76	Local area signaling services (LASS) office totals.

LGC x	145	Line group controller (LGC) measurements. For CLCT, where 'x' equals a study group (1-5). The members of an LGC study group consist of unique SM/ISLU(RISLU) pairs; however, the same SM/ISLU(RISLU) pairs may appear in multiple study groups. These SM/ISLU(RISLU) pairs are assigned to a study group using RC view 13.6 (up to 100 unique pairs per study group can be assigned). A maximum of five study groups can be allowed for collection.
		
		NOTE: If an LGC(s) becomes operational on any ISLU that is a member of a study group previously allowed for collection, the counts will not be generated on those additional LGC(s) until the study group is reallowed for CLCT.
		
		For ROP/OP, where 'x' equals one of the following:
		`UNIT=SM#-ISLU#-LGC#`
		`HIGH=count#`
		`HILO=count#`
		`LOW=count#`
		a maximum of six LGCs or one count can be entered.

LINE x	90	Per LINE measurements on a concentrator basis. Only lines with non-zero counts will be printed on the ROP.
		
		For CLCT: ([ALW|INH]:TRFC30,CLCT,),
		`LINE=SM#-line unit#-concentrator#`
		`ILA=SM#-line unit#-concentrator#-line#`
		
		LINE=ALL or ILA=ALL (with INH only) inhibits all lines and individual line assignments that were allowed for collection.
		
		A maximum of 20 concentrators and/or 128 individual line assignments (ILA) can be under study simultaneously. A maximum of eight concentrators or six ILAs can be entered with a single input message.
		
		This data can alternatively be entered using RC/V Views 13.4 and 13.5.
		
		Conversion chart CONC to grid and board (LU1 and LU2):
		`conc 0 1 2 3 4 5 6 7 8`
		`grid 0 0 1 1 2 2 3 3 4`
		`board 0 1 0 1 0 1 0 1 0`
		
		`conc 9 10 11 12 13 14 15`
		`grid 4 5 5 6 6 7 7`
		`board 1 0 1 0 1 0 1`
		
		Conversion chart CONC to grid and board (LU3):
		`conc 0 1 2 3 4 5 6 7 8 9 10`
		`grid 0 0 1 1 2 2 3 3 4 4 5`
		`board 0 1 0 1 0 1 0 1 0 1 1`
		
		`conc 11 12 13 14 15 16 17 18 19`
		`grid 5 6 6 7 7 8 8 9 9`
		`board 1 0 1 0 1 0 1 0 1`
		
		Conversion chart from line number to switch and level:

		line num 0 1 2 3 4 5 6 7 8 9 10 11 switch 0 0 0 0 1 1 1 1 2 2 2 2 level 0 1 2 3 0 1 2 3 0 1 2 3 line num 12 13 14 15 16 17 18 19 20 21 switch 3 3 3 3 4 4 4 4 5 5 level 0 1 2 3 0 1 2 3 0 1 line num 22 23 24 25 26 27 28 29 30 31 switch 5 5 6 6 6 6 7 7 7 7 level 2 3 0 1 2 3 0 1 2 3
LN	121	Leased network (LN) office totals.
LU	11	Line unit (LU) measures.
MAP	181	Mobile application part (MAP) office total measurements.
MBG x	192	Multiswitch business group (MBG). For CLCT, [ALW|INH]:TRFC30,CLCT,MBG=x-x-x-x-x-x-x-x-x where 'x' equals multiswitch business group (MBG), a maximum of 20 can be studied in an office; nine can be entered with a single input request. For ROP/OP, execute: ALW:TRFC30,rop,MBG OP:TRFC30,MBG
MGSC	74	ISDN BRCS message service customer counts. Enable groups using RC/V View 24.11 before allowing this section (or ALL) for collection.
MGSG	75	ISDN BRCS message service multi-line hunt group counts. Enable groups using RC/V View 24.10 before allowing this section (or ALL) for collection.
MH	185	Message Handler (MH) measurements taken on a per MH basis only on SM2000 SMs. Measurements on all active MHs on the switch will be collected and reported.
MHPIPE	177	MH-QLPS pipe occupancy.
MLHG x	34	Multi-line hunt group (MLHG) measures. Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = MLHG ID, a maximum of five IDs can be entered.
MMP	18	Module message processor (MMP).
MMSUJMTB	78	Junctors and MTBS activities of MMSU (MMSUJMTB) counts. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. For OP request, where 'x' equals SM#-MMSU#-SG#-SHELF#, a maximum of six units can be entered with a single input request.
MMSUGMTIB	79	GDX-ES and MTIBS activities of MMSU (MMSUGMTIB) counts. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. For OP request, where 'x' equals SM#-MMSU#, a maximum of six units can be entered with a single input request.
MOD1 x	83	Miscellaneous per SM measurements (MOD1). For ROP/OP, where 'x' equals one of the following: UNIT=SM#

		HIGH=count# LOW=count# HILO=count# a maximum of six SMs or one count can be entered.
MSGS	19	Message switch (MSGS) controller.
MTSM	149	Matrix time slot measurements (5E16(2)+) For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,MTSM To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,MTSM To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,MTSM Request for immediate output OP:TRFC30,MTSM=x-x-x-x-x-x (max of 6 units), where x=(ORIG SM#)-(TERM SM#) Or OP:TRFC30,MTSM will print whatever is allowed for ROP printing on RC/V view.
NODE	146	Leased Network node-to-node traffic measurements for selective service trunk reservation (SSTR). In an FTS2000 office this section will always be allowed for CLCT (that is, cannot be inhibited). This section will be sent to the network servicing system (ANSER) using EADAS link. However, in a non-FTS2000 office this section will always be inhibited for CLCT (that is, cannot be allowed). This section is inhibited for ROP (that is, cannot be allowed) in every office.
NP	241	Number portability (NP).
NPH x	24	Network PH (NPH) measurements (5E20+). For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,NPH To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,NPH To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,NPH Request for immediate output OP:TRFC30,NPH=x-x-x-x-x-x (max of 8 units), where x=SM#-PSU#-PHGRP#. or OP:TRFC30,NPH will print whatever is allowed for ROP printing on RC/V 13.7 or 13.8 view.
NPHSUP x	99	Network PH supplemental (NPHSUP) measurements [5E20(1)+].

		For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,NPHSUP`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,NPHSUP`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,NPHSUP`
		
		Request for immediate output
		
		`OP:TRFC30,NPHSUP=x-x-x-x-x-x` (max of 8 units), where `x=SM#-PSU#-PHGRP#`.
		
		or `OP:TRFC30,NPHSUP` will print whatever is allowed for ROP printing on RC/V 13.7 or 13.8 view.

NS	91	Number services (NS) office totals. ***NOTE:*** The output depends on OFID 1006. If OFID 1006 is switched off then the section 91 (NS) with single precision counters can be used. For OFID 1006 switched on the section 84 (NSN) with double precision counters can be used (5E16(2)+).
NSN	84	Number services (NS) office totals (5E16(2)+) ***NOTE:*** The output depends on OFID 1006. If OFID 1006 is switched off then the section 91 (NS) with single precision counters can be used. For OFID 1006 switched on the section 84 (NSN) with double precision counters can be used (5E16(2)+).
O800A	196	OSPS 800 access (O800A) measures.
OATQ	109	OSPS American National Standard Institute (*ANSI*®) transaction capabilities application part (TCAP) query and reply measurements.
OCAS	110	OSPS customer account services (OCAS) measures.
OCAS7	135	OSPS customer account services common channel signaling System 7/international credit card validation signaling measures.
OCOIN	100	OSPS coin measurements.
OCTD x	103	OSPS centralized automatic message accounting (CAMA) tone decoder measurements. For ROP/OP, where 'x' equals SM#, a maximum of five SMs can be entered.
ODACCIN	134	OSPS directory assistance (DA) call completion and intercept measures.
ODBPSU x	221	On-demand B-channel - PSU shelf counts. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A individual PSU shelf is defined as a SM#-PSU#-PSU_SHELF# and a maximum of 115 components can be requested. For OP request, where 'x' equals SM#-DNUS#-PSU#-PSU_SHELF#, a maximum of six units can be entered.

OEIS x	124	OSPS external information system (OEIS) data links measures. One measurement per EIS link with a maximum of 320 links.
		
		For ROP/OP, where 'x' equals one of the following:
		`UNIT=EIS_ID#-LINKNO#`
		`HIGH=count#`
		`LOW=count#`

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		HILO=count# a maximum of six units or one count can be entered.
OFA	61	OSPS facility administration (OFA) measures.
OFC	3	Office (OFC) totals.
OFF	127	OSPS fast features (OFF) measures.
OINTA	97	OSPS interflow listing services/commercial-automatic call distributor (C-ACD) measures (OINTA). This was formerly titled OSPS interflow non-toll and assistance (T&A) calls sent measures (OINTA).
OIRCV	96	OSPS interflow T&A calls received (OIRCV) measures.
OISNT	95	OSPS interflow T&A calls sent (OISNT) measures.
OIU x	81	Optical interface unit (OIU) counts [5E16(2)+]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and printing to the ROP. To allow/inhibit for collection: ALW:TRFC30,CLCT,OIU[,all[,a]] INH:TRFC30,CLCT,OIU[,all] where "a" is a global maintenance switching module. For CLCT, if you use the ALL option, with INH, it will inhibit all SM-OIU from collection and reporting. If you use ALL with ALW, it will allow all existing SM-OIU for collection. To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,OIU To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,OIU Request for immediate output: OP:TRFC30,OIU=x-x-x-x-x-x where "x" = SM-OIU
OLAC	195	OSPS line applications for consumers (OLAC) signaling measures.
OMISC	123	OSPS miscellaneous calls measures.
ORTR	63	OSPS real-time rating (ORTR) query measures.
OSPS	44	Operator services position system measurements.
OSPSDL [o]	45	Operator Services Position System data links (OSPS-DL) directory assistance system/computer (DAS/C) and/or management information system/computer (MIS/C) measurements. For ROP/OP, where 'o' equals one of the following: UNIT=SM# HIGH=count# LOW=count# HILO=count# a maximum of five SMs or one count can be entered.
OTA	64	OSPS miscellaneous calls.
OTAP	102	OSPS performance.
OVMS	168	OSPS voice messaging service (OVMS) measures.

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OVOEQ	101	OSPS call volume and equipment usage.
PAG	254	SM PAG measurements [5E16(1) - 5E19(1)].
PBG x	119	Packet business group (PBG) counts. For ROP/OP, where 'x' equals one of the following: UNIT=PBG# HIGH=count# LOW=count# HILO=count# a maximum of five PBGs or one count can be entered.
PBOCC x	165	PSU2 Packet bus occupancy (PBOCC) measurements (5E17(1)+). For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. A component is a SM#-PSU# and a maximum of 46 components can be requested through RC/V. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,PBOCC To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,PBOCC To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,PBOCC Request for immediate output: OP:TRFC30,PBOCC=x-x-x-x-x-x (max of 6 units), where x=SM#-PSU#. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual for the range of values for SM# and PSU#. or OP:TRFC30,PBOCC will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.
PC x	234	Message transfer part point code (PC) measurements. For CLCT and ROP printing, enable one or more PC using RC/V Views 13.7 and 13.8 before allowing this section for collection. A PC is defined as a GSM#-NETWORK#-CLUSTER#-MEMBER# and a maximum of 640 PC can be requested through RC/V. For OP request, 'x' is a PC and is identified completely by a: GSM#-NETWORK#-CLUSTER#-MEMBER# Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of six line patterns can be entered.
PCF x	245	Protocol handler packet control function (PCF) (5E17(1)+). For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. A component is a SM#-PSU#-SHELF#-CHGRP# and a maximum of 230 components can be requested through RC/V.

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		To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,PCF To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,PCF To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,PCF Request for immediate output: OP:TRFC30,PCF=x-x-x-x-x-x (max of 6 units), where x=SM#-PSU#-SHELF#-CHGRP#. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual for the range of values for SM#, PSU#, SHELF# and CHGRP#. OP:TRFC30,PCF will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.
PCSDN x	199	Personal communications services directory number (PCSDN) special study counts reported on a directory number (DN) basis (PCS lines only). For CLCT, 'x' equals the following: =DN(7 digits) = A maximum of six hyphen separated DNs can be entered with a single input request. A maximum of 48 PCS DNs can be studied in an office, where all DNs studied can reside on any one SM.
PCSOFC	200	Personal communications services office (PCSOFC) total measurements.
PFSTGTT x	173	PFS trunk group transcoding type (PFSTGTT) measurements [5E20(1)+]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,PFSTGTT To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,PFSTGTT To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,PFSTGTT Request for immediate output OP:TRFC30,PFSTGTT=x-x-x-x-x-x (max of 6 units), where x=TG#. or OP:TRFC30,PFSTGTT will print whatever is allowed for ROP printing on RC/V 13.7 or 13.8 view.

PHE x	2	Protocol handler ethernet (PHE) (5E17(1)+).
		
		For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. A component is a SM#-PSU#-SHELF#-CHGRP# and a maximum of 230 components can be requested through RC/V.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,PHE`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,PHE`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,PHE`
		
		Request for immediate output:
		
		`OP:TRFC30,PHE=x-x-x-x-x-x` (max of 6 units), where `x=SM#-PSU#-SHELF#-CHGRP#`. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual for the range of values for SM#, PSU#, SHELF# and CHGRP#.
		
		OP:TRFC30,PHE will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.

PKTGRP o	211	Packet group (5E16(2)+)
		
		For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,PKTGRP`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,PKTGRP`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,PKTGRP`
		
		Request for immediate output:
		
		`OP:TRFC30,PKTGRP=x-x-x-x` (max of 12 units), where `x=PKTGRP#` (packet group number).
		
		or `OP:TRFC30,PKTGRP` will print whatever is allowed on the RC/V View.

PKTZ o	262	Packetization time measurements (5E16(2)+) For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.

		To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,PKTZ For CLCT, you can use o equals ALL[,GMSM] for ALW, o equals ALL for INH, with INH, inhibits all BNID from collection and reporting with ALW, allows all existing BNID. To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,PKTZ To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,PKTZ Request for immediate output: OP:TRFC30,PKTZ=x-x-x-x-x-x (max of 6 units), where x=BNID. Or OP:TRFC30,PKTZ will print whatever is allowed on RC/V view.
PRIGRP	243	Primary rate interface group (PRIGRP). For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A PRIGRP is defined as a PRIGRP# and a maximum of 640 components can be requested. For OP request, where 'x' equal PRIGRP#, a maximum of six units can be entered.
PROC	15	Processor (PROC) performance.
PSGRP x	71	ISDN packet switching groups (PSGRP) for modem pooling and multi-line hunt groups. For ROP/OP, where 'x' equals one of the following: UNIT=GRP# HIGH=count# LOW=count# HILO=count# a maximum of six groups or one count can be entered.
PSODB x	105	ISDN packet switching ODB counts. For ROP/OP, where 'x' equals one of the following: UNIT=SM#-ISLU# HIGH=count# LOW=count# HILO=count# a maximum of six units or one count can be entered.
PSOFC	69	ISDN packet switching office (PSOFC) totals.
PSPH x	68	ISDN packet switching PH (PSPH)/DSLG counts. For ROP/OP, where 'x' equals one of the following: UNIT=SM#-SHELF#-DSLG# HIGH=count# LOW=count# HILO=count#

		a maximum of six units or one count can be entered.
PSPORT x	67	ISDN packet switching protocol handler (PH) port (PSPORT) counts. A port is identified completely by SM#-SHELF#-DSLG#-PORT# where SM values are in the range (1-192), SHELF values are in the range (0-4), DSLG values are in the range (0-15), and PORT values are channel numbers in the range (0-127). For CLCT, where 'x' equals one of the following (only one of the study sets can be active): SM#-SHELF#-DSLG# for allowing a DSLG. A maximum of one DSLG can be entered. SM#-SHELF#-DSLG#-PORT# for allowing arbitrarily selected ports. A maximum of 128 ports can entered, six per input message line. PREV (with ALW only) reactivates the previously allowed study set of arbitrarily selected ports if PREV is the first request after an INH. ALL (with inhibit only) inhibits whichever study set was allowed. If arbitrarily selected ports study set had been allowed then the list of ports allowed is saved; if a DSLG was allowed, nothing is saved. For ROP/OP, 'x' equals (only one is active at a time): UNIT=PORT# for up to six ports belonging to one DSLG. UNIT=SM#-SHELF#-DSLG#-PORT# for arbitrarily selected ports. A maximum of six ports can be selected. HIGH=count# LOW=count# HILO=count# a maximum of one count can be selected.
PSSM x	132	ISDN packet switching per switching module processor (PSSM) counts. For ROP/OP, where 'x' equals one of the following: UNIT=SM# HIGH=count# LOW=count# HILO=count# a maximum of six SMs or one count may be entered.
PSTG x	92	ISDN packet switching trunk group counts. For ROP/OP, where 'x' equals one of the following: UNIT=trunk group# HIGH=count# LOW=count# HILO=count# a maximum of six units or one count can be entered.
PSUCHAN x	193	Packet switch unit channel measurements (PSUCHAN). For CLCT, where 'x' equals the following: SM#-PSU#-SHLF#-CHGRP#-CHAN#

		Maximum of 62 PSUCHANs can be entered, six per request.
PSULNK x	197	Protocol handler for asynchronous transfer mode (ATM) link counts For ROP/OP, where 'x' = near community address (NCA)-far community address (FCA) Maximum of 10 sets of IDs can be entered.

PVTGTT x	172	PV Trunk Group Transcoding Type (PVTGTT) measurements [5E20(1)+].
		
		For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,PVTGTT`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,PVTGTT`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,PVTGTT`
		
		Request for immediate output
		
		`OP:TRFC30,PVTGTT=x-x-x` (max of 3 units), where `x=TG#`.
		
		or `OP:TRFC30,PVTGTT` will print whatever is allowed for ROP printing on RC/V 13.7 or 13.8 view.

QANN x	42	Announcements for queuing (QANN) multi-line hunt groups. _ Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = MLHG ID. For each ID entered for output, 5 records are output to the ROP (a maximum of 25 records). A maximum of five IDs can be entered.
QGP	175	QGP processor performance (QGP).
QMLHG x	40	Queuing for multi-line hunt group (QMLHG). Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = MLHG ID with queuing. A maximum of five IDs can be entered.
QPIPE	176	QLPS-QGP pipe occupancy.
QSF x	57	Queuing for simulated facility (QSF) groups. Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = simulated facility group (SFG) ID. A maximum of five SFG IDs can be entered.
QTG x	55	Queuing for trunk groups (QTG). Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection.

		For ROP/OP, where 'x' = trunk group ID, a maximum of five trunk group IDs can be entered.
RAS	93	Remote access services (RAS) measurements.
RDT x	224	DNU-S - RDT counts. For CLCT and ROP printing, enable a RDT(s) using RC/V Views 13.7 and 13.8 before allowing this section for collection. A RDT is defined as a SM#-DNUS#-RDT# and a maximum of 256 RDTs can be requested through RC/V. For OP request, 'x' is a RDT and is identified completely by SM#-DNUS#-RDT#. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of six RDT patterns can be entered.
RDTDNU x	225	Digital networking unit - synchronous optical network (SONET) (DNU-S) - RDT DNU-S counts. For CLCT and ROP printing, enable DNU-S(s) using RC/V Views 13.7 and 13.8 before allowing this section for collection. A RDT is identified by a SM#-DNUS# and a maximum of 2 DNU-S can be requested through RC/V. For OP request, 'x' is a RDT and is identified completely by SM#-DNUS#-RDT#. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of six RDT patterns can be entered.
RSIT	39	Remote site (RSIT) stand-alone measures.
RT	20	Remote terminal - DCLU.

RTP x	107	Real-time transfer protocol (RTP) measurements [5E20(1)+].
		
		For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,RTP`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,RTP`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,RTP`
		
		Request for immediate output
		
		`OP:TRFC30,RTP=x-x-x-x-x-x` (max of 12 units), where `x=PG#`.
		
		or `OP:TRFC30,RTP` will print whatever is allowed for ROP printing on RC/V 13.7 or 13.8 view.

RVPT [o]	25	Revertive pulsing transceivers (RVPT).
		
		For ROP/OP, where 'o' equals one of the following:
		`UNIT=SM#`
		`HIGH=count#`

		LOW=count# HILO=count# a maximum of six SMs or one count can be entered.
SAD [o]	4	System access delay (SAD) For ROP/OP, where 'o' equals one of the following: UNIT=SM# HIGH=count# LOW=count# HILO=count# a maximum of six SMs or one count can be entered.
SCCP x	233	Signaling connection control part (SCCP) measurements. For CLCT and ROP printing, enable one or more SCCP using RC/V Views 13.7 and 13.8 before allowing this section for collection. A SCCP is defined as a GSM# and a maximum of 16 SCCP can be requested through RC/V. For OP request, 'x' is a SCCP and is identified completely by a: GSM# Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of six line patterns can be entered.
SCTP o	210	Stream control transmission protocol (5E16(2)+) For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,SCTP To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,SCTP To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,SCTP Request for immediate output: OP:TRFC30,SCTP=x-x-x-x (max of 7 units), where x=SM#-ASSCN# or OP:TRFC30,SCTP will print whatever is allowed on the RC/V View.
SDN	94	Action control point for software defined networks.
SFG x	32	Simulated facility group (SFG) measures. Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = SFG ID, a maximum of five IDs can be entered.
SG x	144	Switch group (SG) (also know as half-grid) measurements. For CLCT, where 'x' equals a study group (1-5). The members of an SG study group consist of unique SM/LU pairs; however, the same SM/LU pairs may appear in multiple study groups. These SM/LU pairs are assigned to a study group using RC view 13.6 (up to

		100 unique pairs per study group can be assigned). A maximum of five study groups can be allowed for collection.
		
		NOTE: If an SG(s) becomes operational on any LU that is a member of a study group previously allowed for collection, the counts will not be generated on those additional SG(s) until the study group is reallowed for CLCT.
		
		For ROP/OP, where 'x' equals one of the following:
		`UNIT=SM#-LU#-concentrator#-SG#`
		`HIGH=count#`
		`HILO=count#`
		`LOW=count#`
		a maximum of six SGs or one count can be entered.

SHTG x	70	SPEECH HANDLER TRUNK GROUP (SHTG) measurements [5E20(1)+].
		
		For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,SHTG`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,SHTG`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,SHTG`
		
		Request for immediate output
		
		`OP:TRFC30,SHTG=x-x-x-x-x-x` (max of 6 units), where `x=SHTG#`.
		
		or `OP:TRFC30,SHTG` will print whatever is allowed for ROP printing on RC/V 13.7 or 13.8 view.

SIPT	209	Session initiation protocol for telephony office totals (5E16(2)+)
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,SIPT`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,SIPT`
		
		To allow/inhibit for output on traffic channel:
		
		`ALW|INH:TRFC30,TRFCH,SIPT`
		
		To request for immediate output:
		
		`OP:TRFC30,SIPT`

SL x	230	Message transfer part signaling link (SL) measurements. For CLCT and ROP printing, enable one or more SL using RC/V Views 13.7 and 13.8

		before allowing this section for collection. A SL is defined as a GSM#-LSNUM#-MEMBER# and a maximum of 512 SL can be requested through RC/V. For OP request, 'x' is a SL and is identified completely by a: GSM#-LSNUM#-MEMBER# Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of six line patterns can be entered.
SLS x	203	Signaling link set (SLS) measurements For CLCT and ROP printing, enable one or more SLS using RC/V Views 13.7 and 13.8 before allowing this section for collection. A SLS is defined as a GSM#-SLS#. For OP request, 'x' is a SLS and is identified completely by a: GSM#-SLS# Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of nine line patterns can be entered.
SMIWGPCT	206	SM IWG PCT link measurements [5E16(1) - 5E19(1)].

SMS [o]	22	Switching module system (SMS).
		
		For ROP/OP, where 'o' equals one of the following:
		`UNIT=SM#`
		`HIGH=count#`
		`LOW=count#`
		`HILO=count#`
		a maximum of six SMs or one count can be entered.

SNP x	204	Signaling network performance (SNP) For CLCT and ROP printing, enable one or more GSM using RC/V Views 13.7 and 13.8 before allowing this section for collection. A GSM is defined as a GSM#. For OP request, 'x' is a GSM and is identified completely by a: GSM# Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of five line patterns can be entered.
SPA	98	Special access (SPA) measurement counts.
SQA x	58	Simulated facility group (SFG) queuing announcement (SAQ). Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = simulated facility group with queuing announcements, a maximum of five SFGs can be entered.
TBCT	243	Two B-channel transfer (TBCT). For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A TBCT is defined as a PRIGRP# and a maximum of 640 components can be requested. For OP request, where 'x' equal PRIGRP#, a maximum of six units can be entered.
TAG x	252	Trunk access gateway (TAG) measurements [5E16(1) - 5E19(1)]. For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before

		allowing this section for collection and ROP.
		
		To allow/inhibit for collection:
		
		`ALW|INH:TRFC30,CLCT,TAG`
		
		To allow/inhibit for ROP output:
		
		`ALW|INH:TRFC30,ROP,TAG`
		
		To allow/inhibit for TRFCH output:
		
		`ALW|INH:TRFC30,TRFCH,TAG`
		
		Request for immediate output
		
		`OP:TRFC30,TAG=x-x-x-x-x-x` (max of 6 units), where `x=SM#-TAG#`.
		
		or `OP:TRFC30,TAG` will print whatever is allowed on RC/V view.

TCAP	180	Transaction capability application part (TCAP) office total measurements.

TD [o]	7	Tone decoders (TD).
		
		For ROP/OP, where 'o' equals one of the following:
		`UNIT=SM#`
		`HIGH=count#`
		`LOW=count#`
		`HILO=count#`
		a maximum of six SMs or one count can be entered.

TG x	12	Trunk group (TG) measures. For ROP/OP, where 'x' = identifiers of trunk groups (TGID). x can be entered as a single number or as a list of up to five identifiers. It cannot be used with CLCT or TRFCH in an ALW or INH message.
TGN x	212	Trunk group (TGN) measures. For ROP/OP, where 'x' = identifiers of trunk groups (TGID). x can be entered as a single number or as a list of up to four identifiers. It cannot be used with CLCT or TRFCH in an ALW or INH message.
TQA x	56	Trunk group queuing announcements (TQA). Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = trunk group ID, a maximum of five trunk group IDs can be entered.
TRFC15	2	Fifteen minute traffic report.
TRMG x	30	Terminal group (TRMG) measures. Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = terminal group ID, a maximum of five IDs can be entered.
TSM	150	Time slot measurements (5E16(2)+) For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection:

		ALW:TRFC30,CLCT,TSM[,all[,a]] INH:TRFC30,CLCT,TSM[,all] where "a" is a global maintenance switching module. To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,TSM To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,TSM Request for immediate output OP:TRFC30,TSM=x-x-x-x-x-x (max of 6 units), where x=SM Or OP:TRFC30,TSM will print whatever is allowed on RC/V view.
TU	14	Trunk unit (TU) measures.
TX [o]	60	Tone transceivers (TX). For ROP/OP, where 'o' equals one of the following: UNIT=SM# HIGH=count# LOW=count# HILO=count# a maximum of six SMs or one count can be entered.
UCONF	10	Universal conference (UCONF) circuits.
UTS	23	Umbilical time slot (UTS).
VLD	1	Validity (VLD) measures.
VOCODER	246	Voice Coder (VOCODER) measures.

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APP:TST-DSL

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: TST:DSL INPUT MESSAGE

1.1 ABSTRACT

This appendix is intended to provide detailed information to support the TST:DSL input message. This appendix provides information which will be helpful for the experienced, as well as the new user.

NOTE: ISLU is supported only on SM where as ISLU2 is supported on both SM-2000 and the SM. It also should be noted that ISLU2 is supported in 5E10 and later releases. The term LCKEN and ISLU2 in this section is associated with 5E10 and later releases.

1.2 TEST PROCEDURE LIMITATIONS

A test procedure independent of the TST:DSL input message can test any digital subscriber line (DSL) or, more accurately, any basic rate interface (BRI). Presently, testing of DSLs is supported in all configurations of the integrated services line unit (ISLU) and integrated digital carrier unit (IDCU). In addition, testing DSLs of both custom and standard (layer 3) interface types is supported.

The types of DSL (layer 1) interfaces supported are the T-interface (T) and the U-interface (U). The U-interface DSLs (U-DSLs), are supported by alternate mark inversion (AMI) and 2 binary 1 quaternary (2B1Q) technologies. The 2B1Q version supports the standard defined by the *ANSI*®. For the remainder of this document and the TST:DSL output message manual, the term *ANSI*® will refer to the 2B1Q version.

For IDCU the equivalent of the ISLU line card (LC) is called a channel unit (CU). Throughout this message, the LC and IDCU CU will be collectively referred to as the line termination (LT). For ISLU2, 8 of these line terminations are integrated on a single pack called line board. Since there is no unique physical hardware associated with these for ISLU2, we associate ISLU2 with the term "line circuit". The term LC is allowed on input as a value for the TERM parameter; however, LT is preferred and will always be used in output messages and associated documentation.

Any TST:DSL request may be terminated using the STP:TST:DSL input message. The only exception is the IDCU CRC test, which as per specification, must execute until completion.

The following message formats indicate the parameters that apply to specific test types as used for ISLU and IDCU applications. If a parameter not shown within a specific format is used, the parameter will be optionally ignored (if the parameter is unneeded) or the request will be rejected (either partially or completely). The TST:DSL

1.3 ENTRY CRITERIA

Before a TST:DSL test request can be executed, specific conditions must be satisfied, most importantly, the DSL port to be tested must be adequately identified. For TST:DSL, the SM and internal port name are not currently accepted on input; therefore, other external identifiers must be used.

NOTE: The ports that are not assigned the accepted external identifiers cannot be tested using TST:DSL (such as, inter-SM ports).

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A complete TST:DSL request can be generated by providing a DN or an OE number on an input. The following requests fully specify LPBK testing on all populated DSL channels (that is, using default parameters).

```
TST:DSL,DN=X
TST:DSL,LCEN=A-B-C-D
```

If an OE number is entered and a CPE LPBK is intended or a USER mode test has been specified, a valid TEI must be entered. The following sections clarify the use of the accepted external identifiers.

1.3.1 Directory Number (DN)

The DN is the most complete external identifier that can be submitted. From the DN, the OE number and assigned TEI can be determined.

On a single-point/point-to-point DSL there can only be one active (CSV|CSD) user; therefore, the service order profile (USOP) can immediately be associated with an attached CPE. On a multi-point DSL there can be eight (CSV|CSD) users. Each user is associated with an attached CPE when a valid service profile identifier (SPID) is programmed into the CPE. The SPID contains the DN of the user; therefore, the appropriate service order profile (USOP) can be associated with the CPE.

1.4 Equipment Numbers (ILEN|LCEN|LCKEN)

The line termination equipment numbers (LCEN), the line circuit equipment number (LCKEN), or the IDCU line equipment number (ILEN) may be used to identify a particular DSL. This identifier is sufficient for single mode LPBK testing of particular DSL channels using any available termination (excluding the CPE) or to perform a mismatch or CRC test. These external identifiers are NOT sufficient when a particular DSL user must be identified.

In such cases, a valid TEI may be submitted (in addition), to complete the user/equipment identification.

1.4.1 Terminal Endpoint Identifier (TEI)

The TEI is used to identify a specific CPE that is attached to a DSL. Up to eight CPE may be simultaneously connected to a multipoint DSL. When a CPE is plugged in, the switch assigns a unique number to that CPE. The number, which can range from 0 to 126, is called a TEI. Each time a CPE is disconnected and then reconnected to the switch, a different TEI will be assigned.

The presence of a CPE on the T-interface is acknowledged when the switch assigns that CPE a TEI. If the CPE is plugged in and a TEI is not assigned, the CPE will be inoperative. The assigned TEIs can be obtained using the OP:CPE input message.

For TST:DSL, the primary purpose for using a TEI on input, is to identify a specific CPE for LPBK testing; however, the TEI can also be used to identify a particular user of the DSL, if the associated CPE is bound. If the CPE is cut off from the switch for a period of time, the CPE will request a new TEI. This can occur when long duration D-channel LPBK or metallic tests are performed.

1.4.2 CPE binding

Binding is the process of formally associating a particular USOP with individual CPE. When CPE is "bound", the customer is allowed to access a predefined set of subscribed services with that CPE. Specifically, the communication services for which the customer/user is periodically billed.

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Binding on a single-point/point-to-point DSL occurs automatically, after the CPE is connected and assigned a TEI. This is possible because there can only be one active (CSV|CSD) user on this type of DSL.

On a multi-point DSL there can be eight (CSV|CSD) users. When CPE are connected, TEIs are assigned; however, the DSL users cannot be associated with specific CPE. Each user is "bound" to specific CPE when a valid SPID is programmed into the CPE. The SPID contains the DN of the user; therefore, the appropriate USOP can be associated with the CPE and on input, a OE number with a bound TEI can be used to derive the user DN. A CPE can be "bound" to set of "default services" (that is, if defined for the DSL). In this case, a specific DSL user has not been bound to the CPE.

1.5 CONCURRENT DSL ACTIVITIES

A TST:DSL procedure can coexist with other DSL maintenance procedures or customer calls. A TST:DSL procedure will only seize control (that is, take ownership) of DSL resources that are required to complete the specified test. For example, if TST:DSL is to evaluate the B1-channel, the D-channel and B2-channel may be free to process customer calls or perform other maintenance activities. Examples of other maintenance activities are RMV:LINE, RMV:CPE or another TST:DSL request.

When customer service must be blocked The customer impact associated with testing can be reduced or eliminated through the use of

1.5.1 DSL Resource Ownership

For TST:DSL, the scope of DSL ownership required is determined by the DSL channels to be tested, as well as the hardware that must be used. For digital LPBK testing, the hardware unit providing the LPBK termination may not be capable of looping back individual DSL channels. In such a case, all DSL channels must always be placed in LPBK; therefore, all DSL channels must be owned by the test procedure. Such a limitation would be evident when an individual channel is tested, as all DSL channels would be blocked for testing.

To determine the DSL ownership required for a test request, the capabilities of the unit providing the LPBK termination must be understood. This information is provided in the TST:DSL input manual for each unit, under the TERM parameter. Consider the port ownership required on an *ANSI*® DSL given the following test:

```
TST:DSL,DN=X,CH=D,TERM=NT1;
```

The input manual indicates that the *ANSI*® NT1 is capable of providing a LPBK on one or both B-channels or on all DSL channels. If the D-channel must be tested, all DSL channels must be looped back at the NT1; therefore, all DSL channels must be owned by the test procedure (albeit, only the D-channel is tested).

Testing on the D-channel will always require the test procedure to take ownership of all circuit switched (CS) B-channels. Call setup procedures are performed in-band on the D-channel; therefore, when the D-channel is tested, the CS B-channels cannot be used for customer calls. This is event given the following test:

```
TST:DSL,DN=X,CH=D,TERM=LT;
```

The input manual indicates that the LT is capable of providing a LPBK on any DSL channel or all DSL channels. In addition, a LPBK terminations may be selectively removed. The LT hardware attributes do not require that CS B-channels be owned by the test procedure; however, the "testing begins" message will indicate that CS B-channels are owned.

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NOTE: If a PPB-channel is populated, it is not owned by the test procedure. The PPB service does not require use of the D-channel for call setup (signaling is in-band).

For *ANSI*® DSLs, the hardware units that provide LPBK terminations are resources that can be owned by a test procedure. If a test procedure owns the *ANSI*® NT1, subsequent procedures requiring control of the NT1 will camp-on (that is, wait in line) for ownership of that resource. Consider the following test sequence on an *ANSI*® DSL:

```
TST:DSL,DN=X,CH=B1,TERM=NT1;
TST:DSL,DN=X,CH=B2,TERM=NT1;
```

The input manual indicates that for *ANSI*® NT1 requests to remove a LPBK condition, all DSL channels (looped back) will be affected. Given this hardware restriction, if both requests where allowed to proceed, the first request to complete would unloop the NT1 on all channels. To eliminate potential conflict, the second request will camp-on for ownership of the NT1.

On *ANSI*® DSLs, orders to provide LPBKs within specific units on the loop are transmitted on the embedded operations channel (EOC). This channel can only be used by one procedure at a time; therefore, to allow other procedures access, the EOC resource is released after use. For LPBK testing the EOC is owned only while a request to establish or remove a LPBK is in progress. Consider the following sequence of maintenance requests that will run concurrently:

```
TST:DSL,DN=X,TEST=CRC;
TST:DSL,DN=X,CH=B1,TERM=CU3;
TST:DSL,DN=X,CH=B2,TERM=LT;
TST:DSL,DN=X,TEST=CRC,DUR=0,V;
```

In the above test sequence, a CRC test, a B1 CU3 LPBK test, a B2 LT LPBK test, and the PM counts at the CUs and LT are being read concurrently. In this case, to avoid EOC camp-on, reading the PM counts at the CUs would have to be done last, as the use of the EOC is required for the duration of the PM read. The other tests only need the EOC for a short period of time.

In general, if required DSL resources are unavailable (such as, B-channel, NT1, EOC, and so forth), the associated maintenance procedure will camp-on for ownership.

1.5.2 AMI N-Channel

The N-Channel is used to communicate with transmission equipment on the AMI DSL loop. Specifically, TST:DSL uses the N-channel to communicate with the NT1 and populated CUs. The implementation of the N-channel is similar to other AMI DSL channels; however, the N-channel is used solely for maintenance purposes.

The N-Channel supports setting up and removing LPBKs and to administer the layer 1 protocol.

1.5.3 *ANSI*® Embedded Operations Channel (EOC)

The EOC is used to communicate with *ANSI*® NT1s and CUs. The implementation of the EOC is similar to other *ANSI*® DSL channels; however, the EOC is used solely for maintenance purposes.

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The EOC is used to set up LPBKs, reset PM counts, read PM counts, request bad CRC from the NT1, remove LPBKs, turn off the request for bad CRC, and perform a CU PM interval freeze operation (that is, shift the "current" PM counters to the "previous" PM counters in the CU and then reset the "current" PM counters in the CU).

Concurrent testing at the NT1 and CUs for *ANSI*® U-DSLs is possible because the EOC operations are held active by the NT1 or CU. Once the operation is active, the EOC is available for other operations. For AMI U-DSLs, N-channel operations at the NT1 and CUs can only be held active by the LT. This ties up the N-Channel for the duration of the operation. Thus, concurrent operations at the NT1 or CU for AMI U-DSLs are not possible.

1.5.4 EOC Camp-on

The EOC channel is generally used for very brief periods to set up or tear down an operation. The EOC is a system resource. As such, each test must wait its turn to gain access to it. Most operations only require use of the EOC for a few seconds. Reading CU PM counts, however, nominally takes about 25 seconds (the time to read current and previous PM counts for 6 CUs). This means other tests may camp on for use of the EOC. If the camp-on is required to set up a test, a camp-on message will be printed. If the camp-on is required to end a test, a camp-on message is not printed. However, if the camp-on fails in this later case, a failing test status "CANNOT RE-GAIN EOC RSC" is printed. In critical cases (like LPBKs), the test will preempt for the EOC so that the LPBK can be removed. An INTERRUPT string is printed on the TST:DSL output message to indicate that a test could not terminate normally. The TST:DSL output message manual specifies procedures for handling these situations.

Even if the EOC channel is idle, some tests cannot be run at the same time because they require the same system resources for the duration of the test. For example, a B1 LPBK at the NT1 and the LT is not possible as they require the same B-channel resource. In these cases, the tests will camp-on for the specified CAMP time.

1.6 LOOP-BACK TESTING

Depending on the options selected, this message will perform a digital loop-back (LPBK) test on all the assigned D- and B-channels or only a single assigned channel.

1.6.1 LPBK Terminations (TERM)

A LPBK test is performed by first establishing a LPBK at the specified termination. The termination is entered with the TERM option. Then test data is transmitted over the channel(s) to be tested. The returned data from the LPBK is verified and the test results are printed.

A LPBK termination may be placed at the assigned protocol handler (PH), the DSL LT, channel units (CU1 to CU6), the network termination 1 (NT1), or the customer premises equipment (CPE). Testing to externally applied LPBK terminations at the customer premises is also supported.

1.6.2 Acceptable Bit Error Rate (ABER)

The pass/fail criteria of any CS digital test may be modified using the acceptable bit error rate (ABER) input parameter. This parameter is particularly useful when using the sectionalization (SECT) option to do fault isolation (refer to the FAULT ISOLATION TESTING section below for details).

The ABER is not used to specify the pass/fail criteria for PS digital tests. For PS tests, the pass/fail criterion is fixed. If fewer than 98% of the transmitted packets are received without error, then the test is considered failed.

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1.6.3 Protocol Error Record (PER) Interactions

When performing any form of loopback testing, the generation of PERs will be inhibited for the duration of the test. After the test has been completed, PER generation will remain inhibited for a period of three to six minutes. Use the ALW:ALE input message to allow PER generation prior to the expiration of this period.

1.7 FAULT ISOLATION TESTING

Three distinct testing modes are possible. These modes determine how many terminations are to be used during testing:

- Default (single termination used)
- Sectionalization (SECT - all terminations may be used)
- Sequential (SEQ - all terminations may be used)

The default mode tests the single termination (that is, CPE, NT1, CUs, LT, or PH) specified. The remaining two modes test multiple terminations.

1.7.1 Elapsed Testing Time

The maximum duration for each termination of a SECT or SEQ test is one hour. Therefore, the maximum elapsed time for a SECT or SEQ test is ten hours. This is the time to test all possible terminations (CPE, NT1, CU6, ..., CU1, LT, and PH).

1.8 MISMATCH TEST

The mismatch test (TEST=MSMTCH) will detect a mismatch of an LT and the first metallic termination beyond the LT on U-DSLs. This test is used to ensure compatibility between the LT and the first unit (CU or NT1) connected to the LT. This message cannot be used to detect NT1 mismatches when CUs are present.

The mismatch test also tests for loop resistance that is too high or too low between the tip and ring of the LT connected to the first metallic termination (NT1 or CU), and the mismatch test tests for loop resistance that is too low between tip and ground or ring and ground.

For AMI U-DSLs, the mismatch test will also detect a tip and ring reversal at the NT1 (when no CUs are present). Tip and ring reversals at CUs do not matter.

Mismatch detection is possible even if the first termination (NT1 or CU) is powered down (but still connected to the loop).

1.8.1 Mismatch Testing Performed After Certain Loop-backs.

There are many conditions that can cause layer 1 (U-interface) to be down. These include certain metallic loop faults, NT1 "quiet mode", faulty equipment (NT1, CUs, LT), "mismatch", etc. Since some of these conditions are checked by the mismatch test, the mismatch test is automatically run whenever layer 1 is found down at the U-interface and a LPBK of all channels has been requested at an NT1 or CU. Any problems found by the mismatch test will be printed on the ROP.

As a positive indication that the mismatch test was run as part of a LPBK test, a "test qualifier" of the form (MMT xxxx) is printed. Refer to the TST:DSL output message for details.

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1.8.2 Mismatch Test Results

For cases when the mismatch test detects high or low loop resistance, it is recommended that voltage, resistance, and capacitance metallic tests be run on the loop to determine the specific characteristics of any metallic loop fault that may be present. Metallic loop tests are available using mechanized loop testing (MLT) systems, or they are available from the trunk and line work station (TLWS) metallic testing menu 5600/5700 (5E10+).

1.8.3 Mismatch Condition - Exists

If the mismatch test determines that an LT or NT1/CU mismatch exists, then the out-of-service port status will be changed to reflect the mismatch condition.

1.8.4 Mismatch Condition - Does Not Exist

If the mismatch test determines that a mismatch does not exist but layer 1 at the"U-interface is down", then the out-of-service port status may be changed to indicate that the "NT1 power is lost" or the "U-interface is down". The choice depends on two things:

- What the port status was prior to running the mismatch test and
- Whether the mismatch test found that the loop between the LT and the first metallic termination (NT1 or CU1) was open or connected.

If the out-of-service port status was "dying gasp under study" and the loop was "connected", then the dying gasp is assumed to have been received from the NT1 due to a loss of power to the NT1. For this case, the port status will be changed to "NT1 power is lost". If the loop is faulty (that is, one that is not properly connected or one that is opened), it is assumed that any information (dying gasp or otherwise) cannot be received from the NT1. For this case, the "dying gasp under study" indication will be replaced with "U-interface is down", as the dying gasp is assumed to have been erroneously generated from the faulty loop.

The technique used by the mismatch test to evaluate the out-of-service "dying gasp under study" port status works even when BRITE CUs are equipped on the U-DSL. This is because the BRITE CU will ignore any dying gasp indication at the instant that it detects a faulty loop (for example, the loss of the U-interface between the NT1 and the last CU). This means that if a proper connection exists between the LT and CU1, then any dying gasp indication received by the LT from CU1 must have originated from the NT1 prior to the loss of the U-interface.

If the port status was "Mismatch", then the port status would be changed to "U-interface is down". If the port status was anything else, then the port status would be unchanged.

The key is that the out-of-service port statuses (that is, dying gasp under study, NT1 power is lost, mismatch, and U-interface is down) indicate that the U-interface is down. The "NT1 power is lost" signifies that the loss of the U-interface is likely due to customer premises equipment (that is, NT1) problems rather than network (that is, 2-wire loop, CU or LT) problems. Other statuses may indicate customer premises equipment (that is, CPE or NT1) or network equipment problems.

NOTE: "U-interface is down" includes the out-of-service port statuses of UINTF, LINKx, TESTx, NTPWR, and so forth. Refer to the APP:PORT-STATUS appendix in Appendixes section of the Output Message manual for more information.

1.9 CORRUPT CRC TESTING

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The PM freeze interval boundary refers to the PM report interval defined on the RC/V View 8.1 (OFFICE PARAMETERS). The LT current hour PM counts are flagged as corrupt. There is no way to indicate when the CU PM counts are corrupt.

The PM counts are left with the values at the end of the test. This is to allow the PM counters to be read again if desired. The user can clear these PM counts if it is not desirable for performance monitoring to continue based on the values of the counters at the end of the test. The EXC:ALE-RESET input message can be used to clear the PM counts.

The CRC testing procedure includes the following operations:

- Clears the CU interval PM counts (current and previous),
- Clears the LT hour PM counts (current only),
- Marks the current hour LT PM counts as corrupt,
- Sends bad (corrupted) CRC downstream,
- requests the NT1 to send bad CRC upstream (the NT1 must be functional for the CRC test to work),
- Prevents the hourly and interval PM freeze from occurring on this DSL should the CRC test cross a PM freeze (hour or interval) boundary while the test is running,
- Runs the test for the duration (DUR) specified then stops the test (that is, stop sending bad CRC to the NT1 and requests that the NT1 stop sending bad CRC to the switch), and
- Reads the PM counts and prints the results,
- The PM counts are left with the values at the end of the test.

1.9.1 Interpreting CRC Test Results

The corrupt CRC test results are output in tabular format detailing both the previous and current hour PM counts for the LT. If the V (verbose) parameter is selected, counts will be printed for each equipped channel unit. The PM counts for the upstream direction (that is, NT1 to the LT) and the downstream direction (that is, LT to the NT1) of transmission include numerical results for block errors (BE), severe errored seconds (SES) and errored seconds (ES).

The LT previous hour PM counts, which are displayed on output, will not be modified by the CRC test. In addition, the CU previous interval PM counts should remain at zero. The current PM counts at the LT and CUs will vary based on the duration (DUR) of CRC testing.

The CRC test generates one BE for every *ANSI*® superframe (12 milliseconds) transmitted upstream and downstream. This means that the BE counter will accumulate at a rate of 83.3 block errors per second. The ES counter will increment once for every second the test runs. The BE count should be approximately 83.3 times the ES count. The ES and SES should be very nearly equal (refer to the WARNING below).

A severely errored second (SES) occurs when a given number of bit errors (BE)s occur in one second. For CUs, the allowable number of BEs is fixed at 3/sec. For LTs, the number of allowable BEs/sec is recent changeable [refer to RC/V View 8.1 (OFFICE PARAMETERS)]. The CU SES counts and the LT SES counts can only be correlated, if the allowable BEs/sec is the same in each case.

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1.9.2 Reading PM counts

If a CRC test duration is specified to be zero seconds, no CRC test will take place; however, a the PM counts will be read and output. This is useful for obtaining the current PM counts prior to testing or obtaining the counts associated with a CRC test that has just previously been run. The success/failure STATUS associated with reading of the PM counts is output, in addition to the equipped channel units and the elapsed time (ET) taken to read the CU PM counts. The presence of a satellite link may be deduced using the ET output parameter, as the ET will be greater when a satellite transmission link is present.

The PM counts at the CU or LT are not altered by this request. The EXC:ALE input message may also be used to read the PM counts.

1.9.3 CRC Testing and PM Alerts

The purpose of CRC testing is to verify that the performance monitoring (PM) counters at the LT and the CUs can detect and maintain a record of BEs. In addition, if the reporting of PM alerts has been turned on, a PM alert (REPT ALE LEVEL 1 output message) should be triggered if the CRC test duration (DUR) is long enough to cause an LT PM count threshold to be reached.

There are several reasons why it may not be possible to trigger a PM alert. In general, alerts will not be fired if PM has been turned off or an alert has already been triggered. Only one PM alert can be triggered per hour (for hourly alerts) and only one PM alert can be triggered per day (for daily alerts). A CRC test cannot be used to trigger an alert, if the alert has already been triggered for the associated day or hour. Once PM has been turned off, PM counts will not be incremented; therefore, PM will not be triggered. The PM can be turned off on a specific LT for the following reasons:

- U-interface is down at the LT (port status states: UINTF, MSMTCH, etc.).
- The LT is out-of-service (OOS).
- U-DSL D-channel has been manually removed OOS.
- The DSL is unassigned.
- PM has been turned off for the PM group [RC/V View 22.15 (PM THRESHOLD GROUP)].
- PM has been turned off for the SM with the INH:ALE input message using the `LEVEL1,SM=a` options.
- PM has been turned off for the Office [RC/V View 8.1 (RC OFFICE PARAMETERS)].

The PM threshold information is available in the following recent change (RC) views:

- RC/V View 22.15 (PM - THRESHOLD GROUP) shows the PM threshold values for a specific PM group.
- RC/V View 23.2 (DIGITAL SUBSCRIBER LINE - NON BRCS), RC/V View 23.8 (DSL/BRCS ASSIGNMENT) shows the PM group assigned to a specific U-DSL.
- RC/V View 22.7 (ISLU LINE CARD) shows the PM group assigned to a specific U-DSL.

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1.10 EQUIPPED CHANNEL UNITS

It is not possible to determine the presence of AMI CUs, as there is no internal record of CUs and the switch interface does not support responses to CU requests; however, the *ANSI*® U-DSL interface standard allows all requests to be acknowledged.

For *ANSI*® U-DSLs, the presence of CUs is detected by polling for each possible CU. In general, the number equipped CUs (EQCU) is provided in the output for all test types.

If the EQCUs cannot be determined, the EQCU output will indicate the faulty portion of the transmission link. For example, if the U-interface beyond CU2 is down, then the equipped CUs cannot be determined; however, information will be output to identify link two as faulty (that is, EQCU=LINK2). This information is similar to the port status information provided by the OP:ST-PORT output message. Refer to the TST:DSL output message for details.

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APP:UT-IM-REASON

Software Release: 5E15 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: EXPLANATION OF RESPONSES

The following is a list of system responses that are used with many of the *5ESS®* switch generic utilities (UT) input requests. The acknowledgements are used when the syntax of a request is valid, but the request has been denied. Additional information is printed out to explain why the request was denied. Not all responses apply to all requests.

`IP` = In progress. The request was received at the destination and initiated.

`NA` = No acknowledgment. A symbolic look-up is in progress for a unit serviced by the generic utilities input requests. The request is being held in the buffer and will be acted upon when the symbolic look-up has been completed.

`NG` = No good. The request syntax is valid but the request conflicts with current system or equipment status.

`NG – CM ISOLATED FROM AM` = The input request can not be sent at this time because the AM is isolated from the CM. This situation affects all of the UT manually entered input requests. The request must be run again after communications are re-established.

`NG – COMMAND MUST BE PART OF A CLAUSE` = The input request must be part of a clause. The request can not stand alone.

`NG – COMMAND NOT ALLOWED FOR UNIT TYPE` = The request can not be used for this type of unit.

`NG – COULD NOT RECOGNIZE MESSAGE` = This request was passed to the UT controlling process but the structure is not recognized by the UT code.

`NG – INTERNAL ERROR` = Requests to this processor must be immediate requests and not part of a clause.

`NG – ILLEGAL FPC NUMBER` = The requested FPC number does not exist.

`NG – ILLEGAL MMP NUMBER` = The requested MMP number does not exist.

`NG – ILLEGAL PCR NUMBER` = The requested processor does not exist or is not in a valid state for operation.

`NG – ILLEGAL PPC NUMBER` = The requested PPC number does not exist.

`NG – ILLEGAL SM NUMBER` = The requested SM does not exist or is not in a valid state for operation.

`NG – NO OPERATIONAL PCR IN SPECIFIED RANGE` = The requested range of processors does not contain any units which have an operational or special grow state.

`NG – NO OPERATIONAL SM IN SPECIFIED RANGE` = The requested range of SMs does not contain any operational or special grow SMs.

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NG – PCR DOES NOT MATCH PCR IN THE PREVIOUS COMMAND = This request, being part of a clause, must be sent to the same processor as the request that preceded it.

NG – SM DOES NOT MATCH SM IN PREVIOUS COMMAND = The syntax for the request is correct but a series of requests is being entered at this terminal for a different SM. The clause is still active and waiting to be finished and this request has not been included in the clause.

NG – SM NOT SPECIFIED = This request is part of a clause but is not being allowed because the SM number is not indicated. The request needs to be re-entered with the desired SM number.

OK = The request syntax is correct, the processor is available, and the request has been accepted and will be processed.

PF = Printout follows. A corresponding output message will follow in response to the request.

RL = Retry later. System resources could not be allocated to process the request.

RL – ANOTHER TERMINAL IN MIDDLE OF CLAUSE = The requested processor is being set-up with a clause from another terminal.

RL – PCR IS ISOLATED = The requested processor is valid but communications were not established at the time of the request.

RL – SM IS ISOLATED = The requested SM is a valid processor but communications were not established at the time of the request.

ERROR = The request syntax was correct but UT does not recognize the request.

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6. ABT

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ABT:AIUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit common data and control controller (COMDAC).

NOTE: Execution of this message may require further action to put the unit into a valid state. Refer to the **REFERENCES** section of this manual page.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]AIUCOM=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.
- `SW` = Switch.

NOTE: The default is the action currently executing.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:AIUCOM output message.

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5. REFERENCES

Input Message(s):

```
DGN:AIUCOM
SW:AIUCOM
OP:DMQ-CM-SM
OP:OOS
RMV:AIUCOM
RST:AIUCOM
```

Output Message(s):

```
ABT:AIUCOM
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1320,y,x (AIU SUMMARY)

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ABT:AIULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit (AIU) line circuit (LC).

NOTE: Execution of this message may require further action to put the unit into a valid state. Refer to the REFERENCES section of this manual page.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]AIULC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the LC.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:AIULC output message.

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5. REFERENCES

Input Message(s):

```
DGN:AIULC
OP:DMQ-CM-SM
OP:OOS
RMV:AIULC
RST:AIULC
```

Output Message(s):

```
ABT:AIULC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1323,y,z,x (AIU AP STATUS)

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ABT:AIULP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit (AIU) line pack (LP).

NOTE: Execution of this message may require further action to put the unit into a valid state. Refer to the REFERENCES section of this manual page.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]AIULP=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the LP.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:AIULP output message.

5. REFERENCES

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Input Message(s):

```
DGN:AIULP
OP:DMQ-CM-SM
OP:OOS
RMV:AIULP
RST:AIULP
```

Output Message(s):

```
ABT:AIULP
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1320,y,x (AIU SUMMARY)
1323,y,z,x (AIU AP STATUS)

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ABT:AIUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit (AIU) timeslot group (TSGRP).

NOTE: Execution of this message may require further action to put the unit into a valid state. Refer to the REFERENCES section.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]AIUTSGRP=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the TSGRP.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common data and control circuit (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:AIUTSGRP output message.

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5. REFERENCES

Input Message(s):

```
DGN:AIUPIDB
OP:DMQ-CM-SM
OP:OOS
RMV:AIUPIDB
RST:AIUPIDB
```

Output Message(s):

```
ABT:AIUTSGRP
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1321,y,x (AIU TSGRP SUMMARY)

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ABT:AIURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit (AIU) ring generator (RG).

NOTE: Execution of this message may require further action to put the unit into a valid state. Refer to the REFERENCES section.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]AIURG=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the RG.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = RG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:AIURG output message.

5. REFERENCES

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Input Message(s):

```
DGN:AIURG
OP:DMQ-CM-SM
OP:OOS
RMV:AIURG
RST:AIURG
```

Output Message(s):

```
ABT:AIURG
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1320,y,x (AIU SUMMARY)
1322,y,x (AIU RG STATUS)

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ABT:ALIT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the automatic line insulation test (ALIT) circuit at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ALIT=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the ALIT). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number.

`c` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Metallic service unit board number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:ALIT output message.

5. REFERENCES

Input Message(s):

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```
DGN:ALIT
EX:ALIT
RMV:ALIT
RST:ALIT
STP:ALIT
```

Output Message(s):

```
ABT:ALIT
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:AMATAPE

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the tape writing process be aborted. Any automatic message accounting (AMA) data previously written to the tape will be lost. This data, however, is retained on the AMA disk.

2. FORMAT

```
ABT:AMATAPE[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

NOTE: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`NG` = No good. The teleprocessing option is in effect, or if the tape option is in effect but tape writing is not in progress, or the stream checks could have failed.

`PF` = Printout follows. Followed by a REPT:AMATAPE-ERR message or an audit message if any invalid data was encountered while processing the input message.

`RL` = Retry later. A message cannot be sent to the AMA tape writer to abort the session.

5. REFERENCES

Input Message(s):

```
CPY:AMATAPE
OP:AMA-STREAM
STP:AMATAPE
```

Output Message(s):

```
REPT:AMATAPE-ERR
```

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ABT:ASC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM), optical remote switching module (ORM), or the two-mile remote switching module (TRM) alarm and status circuit (ASC) be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ASC=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the ASC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:ASC output message.

5. REFERENCES

Input Message(s):

```
DGN:ASC
EX:ASC
RMV:ASC
RST:ASC
```

Output Message(s):

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```
ABT:ASC
```

Other Manual(s):
235-105-100 *System Maintenance Requirements and Tools*

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ABT:BTSR

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on the bootstrapper board (BTSR) at the specified location.

WARNING: This message causes the intended process to be purged. It also causes an SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]BTSR=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the BTSR). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.
- `TST` = Test.

`b` = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by ABT:BTSR output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:BTSR
EX:BTSR
RMV:BTSR
RST:BTSR
```

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```
TST:BTSR
```

Output Message(s):

```
ABT:BTSR
```

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ABT:CDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]CDFI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the CDFI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. An ABT:CDFI output message follows in response to the request.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:CDFI
EX:CDFI
RMV:CDFI
RST:CDFI
```

Output Message(s):

```
ABT:CDFI
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:CDI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on the control data interface (CDI) at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]CDI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the CDI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:CDI output message.

5. REFERENCES

Input Message(s):

`DGN:CDI`

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```
EX:CDI
RMV:CDI
RST:CDI
STP:CDI
```

Output Message(s):

```
ABT:CDI
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:CLNK

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts actions on the specified communication link (CLNK).

2. FORMAT

```
ABT:a,CLNK=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is the action previously requested on the specified unit.
Valid value(s):
`RMV` = Remove.
`RST` = Restore.

`b` = Switching module (SM) number.

`c` = Office network and timing complex number.

`d` = Type of module message processor (MMP). Valid value(s):
`0` = MMP that handles the even control time slot associated with the SM.
`1` = MMP that handles the odd control time slot associated with the SM.

`e` = Message switch (MSGS) number.

4. SYSTEM RESPONSE

`NG` = No good. Request was invalid.

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:CLNK
RST:CLNK
```

Output Message(s):

```
OP:DMQ
OP:DMQ-CM
```

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```
OP:DMQ-SM
RMV:CLNK
RST:CLNK
```

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ABT:CMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on a communication module processor (CMP) be aborted (ABT).

WARNING: This message causes the CMP action to be killed. It is recommended that the stop (STP) verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]CMP=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

`DGN`	= Diagnose. (Not valid for CM3)
`EX`	= Exercise. (Not valid for CM3)
`RST`	= Restore.

Note: The default is all actions currently waiting or executing on the CMP.

`b` = Message switch side number.

`c` = CMP number.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has been completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

`DGN:CMP`
`EX:CMP`

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```
OP:DMQ-CM-SM
RST:CMP
STP:CMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

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ABT:DCLU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on a *SLC®*96 digital carrier line unit (DCLU).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]DCLU=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the DCLU). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = DCLU number.

`d` = Service group number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Output message ABT:DCLU, DGN:DCLU, EX:DCLU, RMV:DCLU, or RST:DCLU follows.

5. REFERENCES

Input Message(s):

```
DGN:DCLU
EX:DCLU
```

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```
RMV:DCLU
RST:DCLU
```

Output Message(s):

```
ABT:DCLU
DGN:DCLU
EX:DCLU
RMV:DCLU
RST:DCLU
```

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ABT:DCTUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the directly connected test unit common board (DCTUCOM) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]DCTUCOM=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is the action currently executing on the DCTUCOM. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:DCTUCOM output message.

5. REFERENCES

Input Message(s):

```
DGN:DCTUCOM
EX:DCTUCOM
```

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```
RMV:DCTUCOM
RST:DCTUCOM
```

Output Message(s):

```
ABT:DCTUCOM
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:DCTUPORT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the directly connected test unit port circuit (DCTUPORT) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]DCTUPORT=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the DCTUPORT). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:DCTUPORT output message.

5. REFERENCES

Input Message(s):

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```
DGN:DCTUPORT
EX:DCTUPORT
RMV:DCTUPORT
RST:DCTUPORT
```

Output Message(s):

```
ABT:DCTUPORT
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:DFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the digital facility interface (DFI) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]DFI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the DFI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:DFI output message.

5. REFERENCES

Input Message(s):

`DGN:DFI`

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```
EX:DFI
RMV:DFI
RST:DFI
STP:DFI
```

Output Message(s):

```
ABT:DFI
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:DFIH

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]DFIH=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

NOTE: The default is the action currently executing on the DFIH.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
CONFLICT WITH UNIT STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

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`PF` = Printout follows. An ABT:DFIH output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:DFIH
EX:DFIH
RMV:DFIH
RST:DFIH
```

Output Message(s):

```
ABT:DFIH
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ABT:DFTAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that currently running actions be aborted without cleaning up on the distributing frame test access circuit (DFTAC).

This input message should be used only if STP:DFTAC has been attempted and has failed to terminate the previous action. Since both hardware and data may be left in an invalid state as a consequence of the ABT:DFTAC message, a number of other outputs, such as audits and asserts, may follow.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[e,]DFTAC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = MSU number.

`c` = Service group.

`d` = Circuit number.

`e` = The action to be aborted. Valid value(s):

```
DGN
EX
RMV
RST
```

4. SYSTEM RESPONSE

`NG` = No good. Invalid SM number, MSU number, or service group number.

`PF` = Printout follows. Followed by ABT:DFTAC output message.

`RL` = Retry later. The request cannot be executed now (that is, SM is not linked).

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5. REFERENCES

Input Message(s):

```
DGN:DFTAC
EX:DFTAC
RMV:DFTAC
RST:DFTAC
STP:DFTAC
```

Output Message(s):

```
ABT:DFTAC
```

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ABT:DIST

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the distribute point board (DIST) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]DIST=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is the action currently executing on the distribute point board. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number.

`c` = Metallic service unit number.

`d` = Service group number.

`e` = Distribute point board number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:DIST output message.

5. REFERENCES

Input Message(s):

`DGN:DIST`

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```
EX:DIST
RMV:DIST
RST:DIST
STP:DIST
```

Output Message(s):

```
ABT:DIST
```

ABT:DLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts an action on a specific dual link interface (DLI) or range of DLIs in the specified office network and timing complex (ONTC).

'Abort' is differentiated from 'stop' by the action of the request. An abort action is immediate and without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.

NOTE: An 'ABT' should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]DLI={b|b&&c}-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is any action currently waiting or executing on the DLI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RST` = Restore.

`b` = Number of the switching module (SM) that the DLI is on. Also specifies the lower limit for the range of DLIs that is to be aborted, where the DLI number is equivalent to the SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Upper limit of a range of DLIs to be aborted.

`d` = ONTC side that the DLI is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

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Input Message(s):

```
EX:DLI
OP:DMQ
RST:DLI
STP:DLI
```

Output Message(s):

```
OP:DMQ-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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ABT:DNUSCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]DNUSCC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the DNUSCC). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital networking unit - synchronous optical network (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ABT:DNUSCC output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
DGN:DNUSCC
RMV:DNUSCC
RST:DNUSCC
```

Output Message(s):

```
ABT:DNUSCC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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ABT:DNUSCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]DNUSCD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the DNUSCD). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

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`PF` = Printout follows. An ABT:DNUSCD output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:DNUSCD
RMV:DNUSCD
RST:DNUSCD
```

Output Message(s):

```
ABT:DNUSCD
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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ABT:DS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on a digital signal - level 1 (DS1) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified DS1 facility.

2. FORMAT

```
ABT:[a,]DS1=b-c-d-e-f-g-h;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Virtual tributary - level 1.5 (VT15) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:DS1 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:DS1
RST:DS1
STP:DS1
```

Output Message(s):

```
ABT:DS1
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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ABT:DS1SFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).

Execution of this message may require further action to put the unit into a sane state. Refer to the **REFERENCES** section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]DS1SFAC=b-c-d-e-f-g-h;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the DS1SFAC). Valid value(s):

`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`h` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:DS1SFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:DS1SFAC
RST:DS1SFAC
```

Output Message(s):

```
ABT:DS1SFAC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):
1511,x,yyy DNUS STS MAINTENANCE

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ABT:EAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the equipment access network (EAN) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]EAN=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the EAN). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:EAN output message.

5. REFERENCES

Input Message(s):

`DGN:EAN`
`EX:EAN`
`RMV:EAN`

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```
RST:EAN
```

Output Message(s):

```
ABT:EAN
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests abort of maintenance actions on a remote switching module (RSM) facility (FAC) or a trunk FAC.

A remote switching module (RSM) FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. A trunk FAC is a inter-office trunk.

WARNING: This message causes the intended process to be purged. It also causes an SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]FAC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the FAC). Valid value(s):

- `RMV` = Remove.
- `RST` = Restore.
- `TST` = Test.

`b` = Switching module (SM) number.

`c` = Digital line and trunk unit (DLTU) number.

`d` = RSM digital facilities interface (RDFI) number, inter-RSM communication link digital facilities interface (CDFI) number, or inter-office trunk DFI number.

`e` = Facility number. The FAC number is the T1 facility number on a RDFI, CDFI, or DFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

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`PF` = Printout follows. An ABT:FAC output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:FAC
RST:FAC
TST:FAC
```

Output Message(s):

```
ABT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance Manual*
235-105-250 *System Recovery Manual*

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ABT:FPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts actions on the specified foundation peripheral controller (FPC).

'Abort' is differentiated from 'stop' by the action of the request. An abort action is immediate, not caring about the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.
Note: Abort should only be used if the STP:FPC input message fails.

2. FORMAT

```
ABT:[a,]FPC=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is any action currently waiting or executing on the specified unit. Valid value(s):

- `DGN` = Diagnose. (Not valid for CM3)
- `EX` = Exercise. (Not valid for CM3)
- `RST` = Restore.

`b` = FPC number.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:FPC
EX:FPC
OP:DMQ
RST:FPC
```

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Output Message(s):

```
DGN:FPC
EX:FPC
OP:DMQ-CM
RST:FPC
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:GDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on the global digital services function (GDSF).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]GDSF=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the GDSF circuit). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status,

`PF` = Printout follows. Followed by the ABT:GDSF output message.

5. REFERENCES

Input Message(s):

```
DGN:GDSF
EX:GDSF
RMV:GDSF
```

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```
RST:GDSF
STP:GDSF
```

Output Message(s):

```
ABT:GDSF
```

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ABT:GDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the global digital service unit common (GDSUCOM) board be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]GDSUCOM=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the GDSUCOM board). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:GDSUCOM output message.

5. REFERENCES

Input Message(s):

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```
DGN:GDSUCOM
EX:GDSUCOM
RMV:GDSUCOM
RST:GDSUCOM
STP:GDSUCOM
```

Output Message(s):

```
ABT:GDSUCOM
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:GDXACC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the gated diode crosspoint access (GDXACC) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]GDXACC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the GDXACC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:GDXACC output message.

5. REFERENCES

Input Message(s):

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```
DGN:GDXACC
EX:GDXACC
RMV:GDXACC
RST:GDXACC
STP:GDXACC
```

Output Message(s):

```
ABT:GDXACC
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:GDXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the gated diode crosspoint compensator (GDXC) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]GDXC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the GDXC). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number.

`c` = Metallic service unit number.

`d` = Service group number.

`e` = Metallic service unit board position number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:GDXC output message.

5. REFERENCES

Input Message(s):

`DGN:GDXC`

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```
EX:GDXC
RMV:GDXC
RST:GDXC
STP:GDXC
```

Output Message(s):

```
ABT:GDXC
```

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ABT:GDXCON

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the gated diode crosspoint control (GDXCON) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]GDXCON=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the GDXCON). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:GDXCON output message.

5. REFERENCES

Input Message(s):

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```
DGN:GDXCON
EX:GDXCON
RMV:GDXCON
RST:GDXCON
STP:GDXCON
```

Output Message(s):

```
ABT:GDXCON
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:GKCCR

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that any currently running generated key collection and compression routine (GKCCR) processes be aborted in specified processors. Either specific processors can be specified or no processors can be specified. If no processors are specified, then the GKCCR will be aborted on every processor.

ABT:GKCCR aborts GKCCR whether the GKCCR was invoked automatically or manually. Automatic GKCCR runs periodically unless GKCCR is inhibited using the INH:GKCCR input request. Manual GKCCR runs as a result of the EXC:GKCCR input request.

No data corruption will occur as a result of the abort. The GKCCR processes are purged immediately and the user should not expect to see any subsequent EXC:GKCCR or REPT:GKCCR output messages from the purged GKCCR processes.

Any queued manual GKCCR requests are de-queued for the specified processors.

2. FORMAT

```
ABT:GKCCR[,SM=a[&&b]][,CMP=c[-{PRIM|MATE}]][,AM];
```

3. EXPLANATION OF MESSAGE

`MATE` = Mate CMP.

`PRIM` = Primary CMP.

`a` = Switching module (SM) number or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

`c` = Communications module processor (CMP) number.

4. SYSTEM RESPONSE

`NG` = No good. The input request is invalid. May also include:

- `NO VALID PROCESSOR SPECIFIED` = Specific processor(s) were specified in the input request line but no requested processor was operational. If specific processors are to be requested, at least one requested processor must be operational.

`PF` = Printout follows. The request was accepted. An ABT:GKCCR output message will report the status of the request.

5. REFERENCES

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Input Message(s):

```
ALW:GKCCR
EXC:GKCCR
INH:GKCCR
```

Output Message(s):

```
ABT:GKCCR
EXC:GKCCR
REPT:GKCCR
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-210 *Routine Operations and Maintenance*

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ABT:GRID

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the gated diode crosspoint (GDX) grid be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]GRID=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the GDX grid). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.
`TST`	= Test.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:GRID output message.

5. REFERENCES

Input Message(s):

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```
DGN:GRID
EX:GRID
RMV:GRID
RST:GRID
STP:GRID
TST:GRID
```

Output Message(s):

```
ABT:GRID
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:GRIDBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts the scheduled action on the line unit model 2; (LU2) or line unit model 3; (LU3) grid board.

WARNING: This message causes the intended process to be purged. It also causes an SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]GRIDBD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the GRIDBD):
- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.
- `TST` = Test.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Grid number (LU2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Grid number (LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

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PF = Printout follows. Followed by an ABT:GRIDBD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:GRIDBD
EX:GRIDBD
RMV:GRIDBD
RST:GRIDBD
STP:GRIDBD
TST:GRIDBD
```

Output Message(s):

```
ABT:GRIDBD
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

102Y,X Y (CONCEN)

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ABT:HDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the host switching module (HSM) digital facilities interface (HDFI) circuit be aborted. This message results in a process purge in the HSM.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]HDFI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. If the action being aborted is a conditional removal of an HDFI, there is a corresponding conditional removal of the T1 facility (T1FAC) in the remote switching module (RSM) being processed. The T1FAC action in the RSM may be manually aborted if desired. Default is the action currently executing on the HDFI. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = Digital line and trunk unit (DLTU) number.

`d` = HDFI number.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:HDFI output message.

5. REFERENCES

Input Message(s):

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```
ABT:FAC
DGN:HDFI
EX:HDFI
RMV:HDFI
RST:HDFI
```

Output Message(s):

```
ABT:HDFI
```

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ABT:IDCU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified action on an integrated digital carrier unit (IDCU) service group be aborted (ABT).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]IDCU=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (the default action is the action currently executing on the IDCU service group). Valid value(s):

- `DGN` = Diagnose
- `EX` = Exercise
- `RMV` = Remove
- `RST` = Restore

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An ABT:IDCU output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
DGN:IDCU
EX:IDCU
RMV:IDCU
RST:IDCU
```

Output Message(s):

```
ABT:IDCU
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits Manual*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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ABT:IDCUELI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified action on an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be aborted (ABT).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]IDCUELI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (the default action is the action currently executing on the IDCU ELI). Valid value(s):
- `RMV` = Remove
- `RST` = Restore

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An ABT:IDCUELI output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
RMV:IDCUELI
RST:IDCUELI
```

Output Message(s):

```
ABT:IDCUELI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits Manual*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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ABT:IDCUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified action on an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be aborted (ABT).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]IDCUPIDB=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (the default action is the action currently executing on the IDCU PIDB or DPIDB). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PIDB or DPIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An ABT:IDCUPIDB output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
RMV:IDCUPIDB
RST:IDCUPIDB
```

Output Message(s):

```
ABT:IDCUPIDB
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits Manual*
235-105-331 *Hardware Change Procedures - Degrowth*

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ABT:IFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified action on an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be aborted (ABT).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,] IFAC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (the default action is the action currently executing on the IDCU DS1 FAC). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An ABT:IFAC output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
RMV:IFAC
RST:IFAC
```

Output Message(s):

```
ABT:IFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits Manual*

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)

Copyright ©2007 Lucent Technologies

ABT:ISLUCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an integrated services line unit common controller (ISLUCC).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLUCC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the ISLUCC.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ABT:ISLUCC output message will follow.

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5. REFERENCES

Input Message(s):

```
DGN:ISLUCC
EX:ISLUCC
OP:DMQ
OP:OOS
RMV:ISLUCC
RST:ISLUCC
```

Output Message(s):

```
ABT:ISLUCC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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ABT:ISLUCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the actions be aborted on an integrated services line unit common data (ISLUCD).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLUCD=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the ISLUCD.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ABT:ISLUCD output message will follow.

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5. REFERENCES

Input Message(s):

```
DGN:ISLUCD
EX:ISLUCD
OP:DMQ
OP:OOS
RMV:ISLUCD
RST:ISLUCD
```

Output Message(s):

```
ABT:ISLUCD
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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ABT:ISLUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts a specified action on the integrated services line unit high level service circuit (ISLUHLSC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLUHLSC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

NOTE: The default is the action currently executing in the ISLUHLSC.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. The ABT:ISLUHLSC output message will follow.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:ISLUHLSC
EX:ISLUHLSC
RMV:ISLUHLSC
RST:ISLUHLSC
```

Output Message(s):

```
ABT:ISLUHLSC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)

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ABT:ISLULBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request the actions be aborted on an integrated services line unit line board (ISLULBD).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLULBD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the ISLULBD circuit.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

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PF = Printout follows. An ABT:ISLULBD output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:ISLULBD
EX:ISLULBD
RMV:ISLULBD
RST:ISLULBD
STP:ISLULBD
```

Output Message(s):

```
ABT:ISLULBD
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:ISLULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request the actions be aborted on an integrated services line unit line card (ISLULC).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLULC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the ISLULC circuit.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

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PF = Printout follows. An ABT:ISLULC output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:ISLULC
EX:ISLULC
OP:DMQ
OP:OOS
RMV:ISLULC
RST:ISLULC
STP:ISLULC
```

Output Message(s):

```
ABT:ISLULC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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ABT:ISLULCKT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request the actions be aborted on an integrated services line unit line circuit (ISLULCKT).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLULCKT=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the ISLULCKT circuit.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ABT:ISLULCKT output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:ISLULCKT
EX:ISLULCKT
RMV:ISLULCKT
RST:ISLULCKT
STP:ISLULCKT
```

Output Message(s):

```
ABT:ISLULCKT
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:ISLULG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests actions be aborted on an integrated services line unit line group (ISLULG).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLULG=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the ISLULG.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ABT:ISLULG output message will follow.

5. REFERENCES

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Input Message(s):

```
DGN:ISLULG
RMV:ISLULG
RST:ISLULG
```

Output Message(s):

```
ABT:ISLULG
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:ISLULGC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests actions be aborted on an integrated services line unit line group controller (ISLULGC).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLULGC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the ISLULGC.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ABT:ISLULGC output message will follow.

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5. REFERENCES

Input Message(s):

```
DGN:ISLULGC
EX:ISLULGC
OP:DMQ
OP:OOS
RMV:ISLULGC
RST:ISLULGC
```

Output Message(s):

```
ABT:ISLULGC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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ABT:ISLUMAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts a specified action on the integrated services line unit metallic access network (ISLUMAN).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLUMAN=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing in the ISLUMAN.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. The ABT:ISLUMAN output message will follow.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:ISLUMAN
EX:ISLUMAN
RMV:ISLUMAN
RST:ISLUMAN
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)

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ABT:ISLUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on an integrated services line unit (ISLU) peripheral interface data bus (PIDB) pair (both service groups).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the Reference section of this message. This message should only be used when it is necessary to abort the remove phase of an ISLUPIDB degrowth procedure or the restore phase of an ISLUPIDB growth procedure.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLUPIDB=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the ISLU.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ABT:ISLUPIDB output message will follow.

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5. REFERENCES

Input Message(s):

```
OP:OOS
RMV:ISLUPIDB
RST:ISLUPIDB
```

Output Message(s):

```
ABT:ISLUPIDB
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:ISLURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts a specified action on the integrated services line unit ringing generator (ISLURG).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISLURG=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing in the ISLURG.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ISLU service group of RG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. The ABT:ISLURG output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
DGN:ISLURG
EX:ISLURG
RMV:ISLURG
RST:ISLURG
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)

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ABT:ISTF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts the specified actions on the integrated services test function (ISTF) unit.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]ISTF=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing on the ISTF unit.

`b` = Switching module (SM) number.

`c` = ISTF unit number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:

- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by an ABT:ISTF output message.

5. REFERENCES

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Input Message(s):

```
DGN:ISTF
EX:ISTF
RMV:ISTF
RST:ISTF
STP:ISTF
```

Output Message(s):

```
ABT:ISTF
```

MCC Display Page(s):

(ISTF PAGE)

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ABT:IWGFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an inter-working gateway facility (IWGFAC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:IWGFAC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:IWGFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:IWGFAC
RST:IWGFAC
```

Output Message(s):

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```
ABT:IWGFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

IWG

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ABT:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an inter-working gateway link interface (IWGLI).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:IWGLI=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Inter-Working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:IWGLI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:IWGLI
RMV:IWGLI
```

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```
RST:IWGLI
```

Output Message(s):

```
ABT:IWGLI
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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ABT:IWUFAC

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an inter-working unit facility (IWUFAC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:IWUFAC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:IWUFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:IWUFAC
RST:IWUFAC
```

Output Message(s):

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```
ABT:IWUFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

IWU

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ABT:LDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on the local digital service function (LDSF).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]LDSF=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the LDSF circuit). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = LDSF number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status,

`PF` = Printout follows. Followed by the ABT:LDSF output message.

5. REFERENCES

Input Message(s):

```
DGN:LDSF
EX:LDSF
RMV:LDSF
RST:LDSF
STP:LDSF
```

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Output Message(s):

```
ABT:LDSF
```

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ABT:LDSU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on the local digital service unit - model 2 (LDSU2).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]LDSU=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the LDSU2 board). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status, or ABT:LDSU does not apply to model 1 DSUs.

`PF` = Printout follows. Followed by the ABT:LDSU output message.

5. REFERENCES

Input Message(s):

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```
DGN:LDSU
EX:LDSU
RMV:LDSU
RST:LDSU
STP:LDSU
```

Output Message(s):

```
ABT:LDSU
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:LDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the local digital service unit common (LDSUCOM) board be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]LDSUCOM=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the LDSUCOM board). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:LDSUCOM output message.

5. REFERENCES

Input Message(s):

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```
DGN:LDSUCOM
EX:LDSUCOM
RMV:LDSUCOM
RST:LDSUCOM
STP:LDSUCOM
```

Output Message(s):

```
ABT:LDSUCOM
```

Input Appendix(es):

```
APP:RANGES
```

ABT:LI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts a diagnostic or exercise on the link interface (LI) subunit of the specified office network and timing complex (ONTC).

"Abort" is differentiated from "stop" by the action of the request. An abort action is immediate and without regard to the state of the hardware, while "stop" will wait for a "clean" point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.

> ***NOTE 1:*** This message is only valid for offices with communication module model 1; (CM1) hardware.

NOTE 2: An 'ABT' should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]LI=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is any action currently waiting or executing on the LI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.

`b` = Side of the ONTC that the LI is on.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:LI
EX:LI
OP:DMQ
```

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Output Message(s):

```
OP:DMQ-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:LIB

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts the library program in the administrative module (AM) and/or switching modules (SMs) as specified, and the scratch area used in the SM for the library program is released.

WARNING: This input message can leave the resources used by the library program in an unknown state. It should only be used when a normal STP:LIB input message fails.

2. FORMAT

```
ABT:LIB:TEAM=a[,AM][,SM=b|,SM=c&&d];
```

3. EXPLANATION OF MESSAGE

`a` = Team number (1-15) to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.

`b` = SMs that this message should be directed to. The team specified must have a library program running in the SM(s) listed. There can be up to five SM numbers listed. A range could be used instead, as indicated.

`c` = The optional first SM in the range '`c`' to '`d`'.

`d` = The optional last SM in the range '`c`' to '`d`'.

NOTE: If neither the AM or any SMs are specified, the ABT:LIB message is sent to the AM and all SMs with clients loaded under the same team as those specified.

4. SYSTEM RESPONSE

`NG` = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

`PF` = Printout follows. Message has been sent to the SMs/AM or team specified.

5. REFERENCES

Input Message(s):

`LOAD:LIB`

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STP:LIB

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ABT:LUCHAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the line unit channel (LUCHAN) be aborted at the specified location.

WARNING: This message causes the designated process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]LUCHAN=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the LUCHAN). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:LUCHAN output message.

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5. REFERENCES

Input Message(s):

```
DGN:LUCHAN
EX:LUCHAN
RMV:LUCHAN
RST:LUCHAN
STP:LUCHAN
```

Output Message(s):

```
ABT:LUCHAN
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:LUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the line unit channel board (LUCHBD) be aborted at the specified location.

WARNING: This message causes the designated process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]LUCHBD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the LUCHBD). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:LUCHBD output message.

5. REFERENCES

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Input Message(s):

```
DGN:LUCHBD
RMV:LUCHBD
RST:LUCHBD
STP:LUCHBD
```

Output Message(s):

```
ABT:LUCHBD
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:LUCOMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the line unit common control (LUCOMC) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]LUCOMC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the LUCOMC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:LUCOMC output message.

5. REFERENCES

Input Message(s):

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```
DGN:LUCOMC
EX:LUCOMC
RMV:LUCOMC
RST:LUCOMC
STP:LUCOMC
```

Output Message(s):

```
ABT:LUCOMC
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:LUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the line unit high level service circuit (LUHLSC) be aborted at the specified location.

WARNING: This message causes a specified action to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]LUHLSC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the LUHLSC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = High-level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:LUHLSC output message.

5. REFERENCES

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Input Message(s):

```
DGN:LUHLSC
EX:LUHLSC
RMV:LUHLSC
RST:LUHLSC
STP:LUHLSC
```

Output Message(s):

```
ABT:LUHLSC
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:MA

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic access (MA) circuit be aborted at the specified location.

WARNING: This message causes the specified action to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]MA=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the MA circuit). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:MA output message.

5. REFERENCES

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Input Message(s):

```
DGN:MA
EX:MA
RMV:MA
RST:MA
STP:MA
```

Output Message(s):

```
ABT:MA
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:MAB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic access bus (MAB) be aborted at the specified locations.

WARNING: ABT causes the specified action to be purged. It causes an SMABTREQ assert and a variable number of audit reports due to the purge. The STP verb should normally be used. Use ABT only if STP fails.

2. FORMAT

```
ABT:[a,]MAB=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. Default is the action currently executing on the MAB. Valid value(s):
- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by ABT:MAB output message.

`RL` = Retry later. The request cannot be executed due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
STP:MAB
```

Output Message(s):

```
ABT:MAB
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:MCTSI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the module controller/time slot interchange (MCTSI) be aborted at the specified location.

WARNING: This message causes the specified action to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]MCTSI=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the MCTSI). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Module control unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:MCTSI output message.

5. REFERENCES

Input Message(s):

`DGN:MCTSI`
`EX:MCTSI`

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```
RMV:MCTSI
RST:MCTSI
STP:MCTSI
```

Output Message(s):

```
ABT:MCTSI
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:MI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts a diagnostic or exercise on the message interface (MI) on the specified office network and timing complex (ONTC).

Abort is differentiated from stop by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a "sane" state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]MI=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is any action currently waiting or executing on the MI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.

`b` = Side of ONTC that the MI is on.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:MI
EX:MI
OP:DMQ
```

Output Message(s):

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```
OP:DMQ-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:MICU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a diagnostic or exercise be aborted on a message interface and clock unit (MICU) subunit of the office network and timing complex (ONTC).

2. FORMAT

```
ABT:[a,]MICU=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the MICU). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.

`b` = Side of ONTC that the MICU is on.

4. SYSTEM RESPONSE

`NG` = No good. The message format was correct but the request conflicts with current status.

`OK` = Good. The action will be aborted.

5. REFERENCES

Input Message(s):

```
DGN:MICU
OP:DMQ
```

Output Message(s):

```
OP:DMQ
OP:DMQ-CM
OP:DMQ-SM
```

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ABT:MMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the specified module message processor (MMP) be aborted.

Abort is differentiated from 'stop' by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (for example, the end of a phase) and will attempt to leave the hardware in a sane state.
Note: Abort should only be used if an 'STP' message fails.

2. FORMAT

```
ABT:[a,]MMP=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is any action currently waiting or executing on the specified unit. Valid value(s):

- `DGN` = Diagnose. (Not valid for CM3)
- `EX` = Exercise. (Not valid for CM3)
- `RST` = Restore.

`b` = Message switch number.

`c` = MMP logical identification number.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:MMP
EX:MMP
OP:DMQ
RST:MMP
```

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Output Message(s):

```
DGN:MMP
EX:MMP
OP:DMQ-CM
RST:MMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-100-125 *System Description*
235-105-250 *System Recovery Procedures*

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ABT:MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts an action on the message switch control unit (MSCU) on the specified message switch (MSGS).

Abort is differentiated from stop by the action of the request. An abort action is immediate, not caring about the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (for example, the end of a phase) and will attempt to leave the hardware in a sane state.
Note: Abort should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]MSCU=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is any action currently waiting or executing on the MSCU).
Valid value(s):

`DGN`	= Diagnose. (Not valid for CM3)
`EX`	= Exercise. (Not valid for CM3)
`RST`	= Restore.

`b` = Side of MSGS that the MSCU is on.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:MSCU
EX:MSCU
OP:DMQ
RST:MSCU
STP:MSCU
```

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Output Message(s):

```
DGN:MSCU
EX:MSCU
OP:DMQ-CM
RST:MSCU
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:MSGS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts actions on a message switch (MSGS).

Abort is differentiated from 'stop' by the action of the request. An abort action is immediate, not caring about the state of the hardware, while 'stop' will wait for a 'clean' point of termination, for example, (the end of a phase) and will attempt to leave the hardware in a sane state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]MSGS=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is any action currently waiting or executing on the MSGS.
Valid value(s):

`DGN`	= Diagnose.
`RST`	= Restore.

`b` = MSGS number.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:MSGS
OP:DMQ
RST:MSGS
```

Output Message(s):

```
DGN:MSGS
```

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```
OP:DMQ-CM
RST:MSGS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:MSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic service unit common (MSUCOM) board be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]MSUCOM=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is the action currently executing on the MSUCOM board. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:MSUCOM output message.

5. REFERENCES

Input Message(s):

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```
DGN:MSUCOM
EX:MSUCOM
RMV:MSUCOM
RST:MSUCOM
STP:MSUCOM
```

Output Message(s):

```
ABT:MSUCOM
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:MTB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic access (MTB) circuit be aborted at the specified location.

WARNING: This message causes the specified action to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]MTB=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the MTB circuit). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

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`PF` = Printout follows. Followed by the ABT:MTB output message.

5. REFERENCES

Input Message(s):

```
DGN:MTB
EX:MTB
RMV:MTB
RST:MTB
STP:MTB
```

Output Message(s):

```
ABT:MTB
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1135/1145 (MSU MA STATUS)

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ABT:MTIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic test interconnect bus (MTIB) be aborted at the specified locations.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]MTIB=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the MTIB). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by ABT:MTIB output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:MTIB
```

Output Message(s):

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```
ABT:MTIB
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:MTIBAX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic test interconnect bus access (MTIBAX) be aborted at the specified locations.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]MTIBAX=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the MTIBAX). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by ABT:MTIBAX output message.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:MTIBAX

Output Message(s):

ABT:MTIBAX

Input Appendix(es):

APP:RANGES

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ABT:NC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts a diagnostic procedure or exercise of the network clock (NC) on the specified office network and timing complex (ONTC).

Abort is differentiated from stop by the action of the request. An abort action is immediate, not caring about the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (such as, the end of a phase) and will attempt to leave the hardware in a "sane" state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]NC=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is any action currently waiting or executing on the NC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.

`b` = Side of ONTC that the NC is on.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:NC
OP:DMQ
STP:NC
```

Output Message(s):

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```
DGN:NC
OP:DMQ-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:NLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts an action on a specific network link interface (NLI).

"Abort" is differentiated from "stop" by the action of the request. An abort action is immediate and without regard for the state of the hardware, while "stop" waits for a "clean" point of termination, (that is, the end of a phase) and attempts to leave the hardware in a correct state.

NOTE: An 'ABT' should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]NLI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is any action currently waiting or executing on the NLI). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RST`	= Restore.

NOTE: A remove or unconditional restore cannot be stopped once it is accepted.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ONTC side number.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message is printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of this manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

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```
DGN:NLI
EX:NLI
OP:DMQ-CM-SM
RST:NLI
STP:NLI
```

Output Message(s):

```
DGN:NLI
EX:NLI
OP:DMQ-CM
OP:DMQ-SM
RST:NLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance Procedures*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)

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ABT:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on an optical carrier - level 3 (OC3) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified OC3 circuit.

2. FORMAT

```
ABT:[a,]OC3=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:OC3 output message.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:OC3
RST:OC3
STP:OC3
```

Output Message(s):

```
ABT:OC3
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3 STATUS

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ABT:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on an optical carrier - level 3 concatenated (OC3C) facility be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified OC3C facility.

2. FORMAT

```
ABT:[a,]OC3C=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:OC3C output message.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:OC3C
RST:OC3C
STP:OC3C
```

Output Message(s):

```
ABT:OC3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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ABT:ODDBKUP

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that office-dependent data (ODD) backup be aborted.

2. FORMAT

```
ABT:ODDBKUP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP	= In progress. The request has been initiated. The ABT:ODDBU output message will follow.
NA	= The message was not received by the backup control process. The backup control process was preparing a module for backup and could not reply immediately. If it is known that a module is being backed up and the abort is still necessary, then re-try the message.
NG	= No good. The input request is not valid.
OK	= Good. The request was accepted and completed. The ABT:ODDBU output message will follow.

5. REFERENCES

Input Message(s):

```
BKUP:ODD
CLR:ODDBKUP
OP:BKUPSTAT
```

Output Message(s):

```
ABT:ODDBU
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance.*

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ABT:OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on an optical facility interface (OFI) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified OFI circuit.

2. FORMAT

```
ABT:[a,]OFI=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the currently executing action). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:OFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
DGN:OFI
RMV:OFI
RST:OFI
STP:OFI
```

Output Message(s):

```
ABT:OFI
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):
1490 OIU STATUS

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ABT:OFR

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that all current processing on the on-line office records report generator be aborted. Any office record forms print requests scheduled by the OP:OFR-CAT input message are removed unless the DELAY option was specified.

2. FORMAT

```
ABT:OFR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. Invalid request. Followed by an ABT:OFR output message.

`PF` = Printout follows. Valid request. Output message ABT:OFR follows.

5. REFERENCES

Input Message(s):

```
OP:OFR-CAT
OP:OFR-FORM
OP:OFR-STATUS
```

Output Message(s):

```
ABT:OFR
STOP:OFR
```

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ABT:ONTC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts a diagnostic or conditional restore request on the specified office network and timing complex (ONTC).

Abort is differentiated from stop by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (such as, the end of a phase) and will attempt to leave the hardware in a "sane" state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]ONTC=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is any action currently waiting or executing on the ONTC).
Valid value(s):

`DGN`	= Diagnose.
`RST`	= Conditional restore.

NOTE: A removal, unconditional restoration, or switch cannot be aborted once it is accepted.

`b` = Side of the ONTC.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:ONTC
OP:DMQ-CM-SM
RST:ONTC
STP:ONTC
SW:ONTC
```

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Output Message(s):

```
DGN:ONTC
OP:DMQ-CM
RST:ONTC
SW:ONTC
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:ONTCCOM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts an action on the specified office network and timing common units (ONTCCOM). The ONTCCOM is made up of the following entities:

- Message interface (MI).
- Network clock (NC).
- Time multiplexed switch (TMS) excluding the network control and timing links (NCTLNKs).
- Link interface (LI), which exists only in the communication module model 1 (CM1) hardware.

Abort is differentiated from stop by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]ONTCCOM=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is any action currently waiting or executing on the ONTC).
Valid value(s):

`DGN`	= Diagnose.
`RST`	= Restore.

NOTE: A removal, unconditional restoration, or switch cannot be aborted once it is accepted.

`b` = ONTC common side.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

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5. REFERENCES

Input Message(s):

```
DGN:ONTCCOM
OP:DMQ
RST:ONTCCOM
```

Output Message(s):

```
DGN:ONTCCOM
OP:DMQ-CM
RST:ONTCCOM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:OTO

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Aborts the specified office-to-office (OTO) task. If directory number (DN), *SLC®* line equipment number (SLEN), integrated digital carrier unit (IDCU) line equipment number (ILEN), digital network equipment number(INEN), and OTO request number are omitted, all currently active OTO tasks will be aborted.

2. FORMAT

```
ABT:OTO[,NPA=l][,h];
```

3. EXPLANATION OF MESSAGE

`a` = Three-digit office code.

`b` = Local digits.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital carrier line unit (DCLU) number.

`e` = Remote terminal (RT) number.

`f` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If a DN, SLEN, ILEN, INEN or request number are not specified, then all active office-to-office tasks are aborted.

`g` = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Valid value(s):

DN=a-b
ILEN=c-g-e-f
INEN=c-j-k-f
REQ=i
SLEN=c-d-e-f

`i` = OTO request number of task to be aborted. The request number can be found on the printout follows (PF) acknowledgement message of the EX:OTO input message that is to be aborted. In addition, it is displayed on all EX:OTO output messages associated with that task.

`j` = Digital network unit (DNU) number.

`k` = Remote terminal (RT) number.

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`l` = Numbering Plan Area or Area Code of the DN.

4. SYSTEM RESPONSE

`NG` = No good. No office-to-office tasks are currently active, or specified task not found to be currently active. Valid value(s):

- `OTO NOT ACTIVE`
- `REQ NOT ACTIVE`
- `STARTING DN NOT ACTIVE`
- `STARTING SLEN NOT ACTIVE`
- `STARTING ILEN NOT ACTIVE`
- `STARTING NPA & DN NOT ACTIVE`

`PF` = Printout follows. The request is accepted and the specified task(s) will be aborted. An EX:OTO output message will follow.

5. REFERENCES

Input Message(s):

`EX:OTO`

Output Message(s):

`EX:OTO`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-200 *Precutover and Cutover Procedures*

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ABT:PAG

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be aborted on a network interface.

2. FORMAT

```
ABT:PAG=a-b,~NETINTF=c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet access gateway (PAG) component number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:PAG output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ABT:PAG`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1342,y PAG

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ABT:PCTDX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on a peripheral control and timing data exchanger (PCTDX)

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:PCTDX=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ABT:PCTDX output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:PCTDX
RMV:PCTDX
RST:PCTDX
```

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Output Message(s):

```
ABT:PCTDX
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1330,y (PDXU)

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ABT:PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts the currently executing action on the peripheral control and timing (PCT) link.

WARNING: This command causes the intended process to be purged. It can also cause a variable number of other purges, asserts, and audit reports. Under normal circumstances, use the STP command. Use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified PCT line and trunk unit link circuit.

2. FORMAT

```
ABT:[a,]PLTLK=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the PLTLK). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PCT facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ABT:PLTLK output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
DGN:PLTLK
RMV:PLTLK
RST:PLTLK
STP:PLTLK
SW:PLTLK
```

Output Message(s):

```
ABT:PLTLK
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1430 (PLTU Status Page)

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ABT:PMU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the precision measurement unit (PMU) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]PMU=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is the action currently executing on the PMU. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:PMU output message.

5. REFERENCES

Input Message(s):

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```
DGN:PMU
EX:PMU
RMV:PMU
RST:PMU
```

Output Message(s):

```
ABT:PMU
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:PPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts actions on the specified pump peripheral controller (PPC).

Abort is differentiated from 'stop' by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.
Note: An 'ABT' should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]PPC=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is any action currently waiting or executing on the PPC.
Valid value(s):

`DGN`	= Diagnose. (Not valid for CM3)
`EX`	= Exercise. (Not valid for CM3)
`RST`	= Restore.

`b` = PPC number.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:PPC
EX:PPC
OP:DMQ
RST:PPC
```

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Output Message(s):

```
DGN:PPC
EX:PPC
OP:DMQ-CM
RST:PPC
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:PPMTC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified action on the periodic pulse metering circuit (PPMTC) be aborted.

2. FORMAT

```
ABT:[a,]PPMTC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is the action currently executing in the PPMTC.

`b` = Switching module (SM) number.

`c` = Modular metallic service unit number.

`d` = Service group.

`e` = Board number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

MCC Display Page(s):

113Y,X (MSU Y SG 0)
114Y,X (MSU Y SG 1)

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ABT:PPPLK

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on an optical interface unit (OIU) point to point protocol link (PPPLK) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified OIU protection group (PG).

2. FORMAT

```
ABT:[a,]PPPLK=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous transport signal level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:PPPLK output message.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:PPPLK
RST:PPPLK
STP:PPPLK
```

Output Message(s):

```
ABT:PPPLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1494 OIU PKT STATUS

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ABT:PROTO

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the protocol circuit (PROTO) be aborted at the specified locations.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]PROTO=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the PROTO). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number.

`c` = Unit number.

`d` = Service group number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by ABT:PROTO output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
STP:PROTO
```

Output Message(s):

```
ABT:PROTO
```

ABT:PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To abort actions on either a packet switch unit (PSU), common controller (COM).

NOTE: Execution of this input message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]PSUCOM=b-c-d[-e];
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. The default is the action currently executing on the PSU circuit. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module (SM) number.

`c` = PSU number.

`d` = Service group number.

`e` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:PSU output message.

5. REFERENCES

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Input Message(s):

```
DGN:PSUCOM
DGN:PSUPH
EX:PSUCOM
EX:PSUPH
OP:DMQ
OP:OOS
RMV:PSUCOM
RMV:PSUPH
RST:PSUCOM
RST:PSUPH
STP:PSUCOM
STP:PSUPH
```

Output Message(s):

```
ABT:PSUCOM
ABT:PSUPH
```

Other Manual(s):
235-600-500 *Assert*

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK

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ABT:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To abort actions on either a packet switch unit (PSU) common controller (COM).

NOTE: Execution of this input message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]PSUCOM=b-c-d[-e];
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. The default is the action currently executing on the PSU circuit. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module (SM) number.

`c` = PSU number.

`d` = Service group number.

`e` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:PSU output message.

5. REFERENCES

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Input Message(s):

```
DGN:PSUCOM
DGN:PSUPH
EX:PSUCOM
EX:PSUPH
OP:DMQ
OP:OOS
RMV:PSUCOM
RMV:PSUPH
RST:PSUCOM
RST:PSUPH
STP:PSUCOM
STP:PSUPH
```

Output Message(s):

```
ABT:PSUCOM
ABT:PSUPH
```

Other Manual(s):
235-600-500 *Assert*

MCC Display Page(s):
118x,y PSU SHELF
1186,y PSU NETWORK (where y=PSU number)

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ABT:PSUPH-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To abort actions on either a packet switch unit (PSU) protocol handler (PH).

NOTE: Execution of this input message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]PSUPH=b-c-d[-e];
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. The default is the action currently executing on the PSU circuit. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module (SM) number.

`c` = PSU number.

`d` = Shelf number.

`e` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:PSU output message.

5. REFERENCES

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Input Message(s):

```
DGN:PSUCOM
DGN:PSUPH
EX:PSUCOM
EX:PSUPH
OP:DMQ
OP:OOS
RMV:PSUCOM
RMV:PSUPH
RST:PSUCOM
RST:PSUPH
STP:PSUCOM
STP:PSUPH
```

Output Message(s):

```
ABT:PSUCOM
ABT:PSUPH
```

Other Manual(s):
235-600-500 *Assert*

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK

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ABT:PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To abort actions on either a packet switch unit (PSU) protocol handler (PH).

NOTE: Execution of this input message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]PSUPH=b-c-d[-e];
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. The default is the action currently executing on the PSU circuit. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = PSU number.

`d` = Shelf number.

`e` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:PSU output message.

5. REFERENCES

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Input Message(s):

```
DGN:PSUCOM
DGN:PSUPH
EX:PSUCOM
EX:PSUPH
OP:DMQ
OP:OOS
RMV:PSUCOM
RMV:PSUPH
RST:PSUCOM
RST:PSUPH
STP:PSUCOM
STP:PSUPH
```

Output Message(s):

```
ABT:PSUCOM
ABT:PSUPH
```

Other Manual(s):
235-600-500 *Assert*

MCC Display Page(s):
118x,y PSU SHELF
1186,y PSU NETWORK (where y=PSU number)

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ABT:PSUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified action on a packet switch unit (PSU) peripheral interface data bus (PIDB) be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]PSUPIDB=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (the default action is the action currently executing on the PSU PIDB). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. The ABT:PSUPIDB output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
RMV:PSUPIDB
RST:PSUPIDB
```

Output Message(s):

```
ABT:PSUPIDB
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:QGP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on a quad-link packet switch (QLPS) gateway processor (QGP) be aborted (ABT).

WARNING: This message causes the QGP action to be killed. It is recommended that the stop (STP) verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]QGP=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. This input message will abort all requests with the specified action either waiting or executing for the QGP; if no action is given, all requests for the QGP are aborted. Valid value(s):

`DGN`	= Diagnose. (Not valid for CM3)
`EX`	= Exercise. (Not valid for CM3)
`RST`	= Restore.
(blank)	= Any action on the QGP.

`b` = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`c` = QGP number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A QGP abort output message follows.

5. REFERENCES

Input Message(s):

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```
DGN:QGP
EX:QGP
OP:DMQ-CM-SM
RST:QGP
STP:QGP
```

Output Message(s):

```
DGN:QGP
EX:QGP
OP:DMQ-CM
RST:QGP
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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ABT:QLPS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on a quad-link packet switch (QLPS) be aborted (ABT).

WARNING: This message causes the QLPS action to be killed. It is recommended that the stop (STP) verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]QLPS=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. This input message will abort all requests with the specified action either waiting or executing for the QLPS; if no action is given, all requests for the QLPS are aborted. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RST`	= Restore.
blank	= All the above actions currently waiting or executing on the QLPS.

`b` = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`c` = QLPS network number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A QLPS abort output message will follow.

5. REFERENCES

Input Message(s):

`DGN:QLPS`

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```
EX:QLPS
OP:DMQ-CM-SM
RST:QLPS
STP:QLPS
```

Output Message(s):

```
DGN:QLPS
EX:QLPS
OP:DMQ-CM
RST:QLPS
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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ABT:RAF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts the specified actions on the recorded announcement function (RAF) unit.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RAF=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is the action currently executing on the RAF unit. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = RAF unit number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:

- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Output message ABT:RAF will follow.

5. REFERENCES

Input Message(s):

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```
DGN:RAF
EX:RAF
RMV:RAF
RST:RAF
STP:RAF
```

Output Message(s):

```
ABT:RAF
```

MCC Display Page(s):

(RAF PAGE)

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ABT:RAU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM) alarm (RAU) circuit be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RAU=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the RAU). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:RAU output message.

5. REFERENCES

Input Message(s):

```
DGN:RAU
EX:RAU
RMV:RAU
RST:RAU
```

Output Message(s):

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```
ABT:RAU
```

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ABT:RCL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on an inter-remote switching module (RSM) remote communication link (RCL) be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RCL=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the RCL). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = Digital line and trunk unit (DLTU) number.

`d` = Inter-RSM communication link digital facilities interface (CDFI) number.

`e` = Facility (FAC) number. The FAC number is the T1 facility number on a CDFI.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. An ABT:RCL output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
RMV:RCL
RST:RCL
STP:RCL
```

Output Message(s):

```
ABT:RCL
```

Other Manual(s):
235-105-220 *Corrective Maintenance Manual*
235-105-250 *System Recovery Manual*

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ABT:RCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on the remote clock (RCLK) circuit.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RCLK=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the RCLK). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = RCLK side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. An ABT:RCLK output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
DGN:RCLK
EX:RCLK
RMV:RCLK
RST:RCLK
```

Output Message(s):

```
ABT:RCLK
```

MCC Display Page(s):

(RSM RCU)

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ABT:RCOSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on the remote clock oscillator (RCOSC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RCOSC=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the RCOSC). Valid value(s):

`RMV`	= Remove.
`RST`	= Restore.
`SW`	= Switch.

`b` = Switching module (SM) number.

`c` = RCOSC side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. An ABT:RCOSC output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
RMV:RCOSC
RST:RCOSC
SW:RCOSC
```

Output Message(s):

```
ABT:RCOSC
```

MCC Display Page(s):

(RSM RCU)

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ABT:RCOXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on the remote clock oscillator cross couple (RCOXC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RCOXC=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the RCOXC). Valid value(s):

- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = RCOXC side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. An ABT:RCOXC output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
RMV:RCOXC
RST:RCOXC
```

Output Message(s):

```
ABT:RCOXC
```

MCC Display Page(s):

(RSM RCU)

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ABT:RCREF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on the remote clock reference (RCREF).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RCREF=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the RCREF). Valid value(s):

`RMV`	= Remove.
`RST`	= Restore.
`SW`	= Switch.

`b` = Switching module (SM) number.

`c` = Equipped reference number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. An ABT:RCREF output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
RMV:RCREF
RST:RCREF
SW:RCREF
```

Output Message(s):

```
ABT:RCREF
```

MCC Display Page(s):

(RSM RCU)

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ABT:RCXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on the remote clock cross couple (RCXC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RCXC=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the RCXC). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = RCXC side.

4. SYSTEM RESPONSE

`NG` - No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. An ABT:RCXC output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RCXC
```

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```
RST:RCXC
```

Output Message(s):

```
ABT:RCXC
```

MCC Display Page(s):

(RSM RCU)

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ABT:RDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM) digital facilities interface (RDFI) circuit be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RDFI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the RDFI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = Digital line and trunk unit (DLTU) number.

`d` = RDFI number.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:RDFI output message.

5. REFERENCES

Input Message(s):

```
DGN:RDFI
EX:RDFI
RMV:RDFI
```

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```
RST:RDFI
```

Output Message(s):

```
ABT:RDFI
```

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ABT:RLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM) remote link interface (RLI) circuit be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RLI=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the RLI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:RLI output message.

5. REFERENCES

Input Message(s):

```
DGN:RLI
EX:RLI
RMV:RLI
```

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```
RST:RLI
```

Output Message(s):

```
ABT:RLI
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:RMV-RT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted. This message is applicable for TR303 RTs terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
ABT:RMV RT,a;
```

3. EXPLANATION OF MESSAGE

`a` = Unit. Valid value(s):

```
EOC=b-c
TMC=b-d
```

`b` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the corresponding output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RT-EOC
RMV:RT-TMC
RST:RT-EOC
RST:RT-TMC
```

Output Message(s):

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```
STP:RT-EOC
STP:RT-TMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1660,xxxx TR303 REMOVTE TERMINAL
188xyy IDCU REMOVTE TERMINAL

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ABT:RRCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]RRCLK=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.
`SW`	= Switch.

NOTE: The default is the action currently executing on the RRCLK.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = RRCLK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `CONFLICT WITH UNIT STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

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`PF` = Printout follows. An ABT:RRCLK output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:RRCLK
EX:RRCLK
RMV:RRCLK
RST:RRCLK
SW:RRCLK
```

Output Message(s):

```
ABT:RRCLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ABT:RST-RT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted. This message is applicable for TR303 RTs terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
ABT:RST RT,a;
```

3. EXPLANATION OF MESSAGE

`a` = Unit to be stopped. Valid value(s):

```
EOC=b-c
TMC=b-d
```

`b` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the corresponding output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RT-EOC
RMV:RT-TMC
RST:RT-EOC
RST:RT-TMC
```

Output Message(s):

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```
STP:RT-EOC
STP:RT-TMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1660,xxxx TR303 REMOTE TERMINAL
188xyy IDCU REMOTE TERMINAL
RSM RCU

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ABT:RVPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions currently running on the revertive pulsing transceiver (RVPT) be aborted. This input message should be used only if the STP:RVPT input message has been attempted first and has failed to terminate the previous action. Because both hardware and data may be left in an invalid state as a consequence of one ABT:RVPT message, a number of other outputs, such as audits and asserts, may follow.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[e,]RVPT=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Unit number.

`c` = Service group.

`d` = Circuit number.

`e` = Action being aborted. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by ABT:RVPT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
DGN:RVPT
EX:RVPT
RMV:RVPT
RST:RVPT
STP:RVPT
```

Output Message(s):

```
ABT:RVPT
```

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ABT:SAS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts the specified actions on the service announcement system (SAS) unit.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]SAS=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the SAS unit). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:

- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Output message ABT:SAS follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

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5. REFERENCES

Input Message(s):

```
DGN:SAS
EX:SAS
RMV:SAS
RST:SAS
STP:SAS
```

Output Message(s):

```
ABT:SAS
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:SCAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the scan point board at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]SCAN=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is the action currently executing on the scan point board. Valid values are:

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:SCAN output message.

5. REFERENCES

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Input Message(s):

```
DGN:SCAN
EX:SCAN
RMV:SCAN
RST:SCAN
STP:SCAN
```

Output Message(s):

```
ABT:SCAN
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:SDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on a *SLC*®96 digital facility interface (SDFI).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]SDFI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the SDFI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = DCLU number.

`d` = SDFI number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Output message follows.

5. REFERENCES

Input Message(s):

```
DGN:SDFI
EX:SDFI
RMV:SDFI
```

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```
RST:SDFI
```

Output Message(s):

```
ABT:SDFI
```

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ABT:SFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the REFERENCES section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]SFI=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the SFI). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ABT:SFI output message will follow.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:SFI
RMV:SFI
RST:SFI

Output Message(s):

ABT:SFI

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1510 (DNUS STATUS)

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ABT:SLIM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the subscriber line instrument measurement (SLIM) board be aborted.

WARNING: This message causes the intended process to be purged. It also causes a variable number of audit reports due to the purge. It is recommended that the STP (STOP) verb be used under normal circumstances. The ABT input message should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]SLIM=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is the action currently executing on the SLIM board. Valid value are:

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = SLIM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:SLIM output message.

5. REFERENCES

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Input Message(s):

```
DGN:SLIM
EX:SLIM
RMV:SLIM
RST:SLIM
STP:SLIM
```

Output Message(s):

```
ABT:SLIM
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:STS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on a synchronous transport signal - level 1 (STS1) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified STS1.

2. FORMAT

```
ABT:[a,]STS1=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:STS1 output message.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:STS1
RST:STS1
STP:STS1
```

Output Message(s):

```
ABT:STS1
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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ABT:STS3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on a synchronous transport signal - level 3 concatenated (STS3C) facility be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified protection group (PG).

2. FORMAT

```
ABT:[a,]STS3C=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:STS3C output message.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:STS3C
RST:STS3C
STP:STS3C
```

Output Message(s):

```
ABT:STS3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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ABT:TAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the test and access circuit (TAC) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]TAC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted. The default is the action currently executing on the TAC. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:TAC output message.

5. REFERENCES

Input Message(s):

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```
DGN:TAC
EX:TAC
RMV:TAC
RST:TAC
STP:TAC
```

Output Message(s):

```
ABT:TAC
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:TASK-TLWS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an active trunk and line work station (TLWS) maintenance task be aborted.

WARNING: Once this message is entered, the consistency of all hardware states and data in use by the task is questionable.

2. FORMAT

```
ABT:TASK:TLWS=a;
```

3. EXPLANATION OF MESSAGE

`a` = Task identifier number given active TLWS maintenance tasks by the OP:JOBSTATUS input message.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and the system will attempt to abort the specified task. Followed by an ABT:TASK-TLWS output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

`OP:JOBSTATUS`

Output Message(s):

`ABT:TASK-TLWS`

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ABT:TASK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an active trunk and line work station (TLWS) maintenance task or an *Autoplex*™ automatic task administrator (AATA) maintenance task be aborted.

WARNING: Once this message is entered, the consistency of all hardware states and data in use by the TLWS task is questionable.

2. FORMAT

```
ABT:TASK:JOB=a,PID=b,UNIQ=c;
```

3. EXPLANATION OF MESSAGE

`a` = Job type. Valid value(s):
- `AATA` = AATA maintenance task.
- `TLWS` = TLWS maintenance task.

`b` = Task process number given an active maintenance tasks by the OP:JOBSTATUS input message.

`c` = Unique number given an maintenance task by the OP:JOBSTATUS input message.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and the system attempts to abort the specified task. The ABT:TASK output message follows.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

`OP:JOBSTATUS`

Output Message(s):

`ABT:TASK`

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ABT:TEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the trunk equipment number (TEN) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]TEN=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (the default is the action currently executing on the TEN). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = TEN unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:TEN output message.

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5. REFERENCES

Input Message(s):

```
DGN:TEN
EX:TEN
RMV:TEN
RST:TEN
STP:TEN
```

Output Message(s):

```
ABT:TEN
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:TMS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts a diagnostic or exercise on the time multiplexed switch (TMS) on the specified office network and timing complex (ONTC).

Abort is differentiated from stop by the action of the request. An abort action is immediate, without regard for the state of the hardware. 'Stop' will wait for a 'clean' point of termination, (such as, the end of a phase) and will attempt to leave the hardware in a sane state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT

```
ABT:[a,]TMS=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is any action currently waiting or executing on the TMS). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.

`b` = Side of ONTC.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:TMS
EX:TMS
OP:DMQ
```

Output Message(s):

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```
DGN:TMS
EX:TMS
OP:DMQ-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:TMSFP

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts a diagnostic, remove, or restore, on the time multiplexed switch (TMS) fabric pair (TMSFP) for the specified office network and timing complex (ONTC). This command also has the option of aborting any running or pending child requests of the parent TMSFP.

ABT is differentiated from STP by the action of the request. An abort action is immediate, without regard for the state of the hardware, while STP will wait for a graceful point of termination, (for example, the end of a phase) and will attempt to leave the hardware in a valid state.

WARNING: This message causes the TMSFP action to be killed. It is recommended that the stop (STP) verb be used under normal circumstances. ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]TMSFP=b-c[,ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Abort the TSMFP request and/or any child (for example, QLPS, NLI, DLI) requests that may exist on the deferred maintenance queues (DMQ).

`a` = Action to be aborted. The default is any action currently waiting or executing on the TMSFP. Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = ONTC side that the TMSFP is on.

`c` = TMS fabric pair number.

4. SYSTEM RESPONSE

`IP` = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:TMSFP
OP:DMQ-CM-SM
RMV:TMSFP
RST:TMSFP
STP:TMSFP
```

Output Message(s):

```
DGN:TMSFP
OP:DMQ-CM
RMV:TMSFP
RST:TMSFP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ABT:TMUX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]TMUX=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the TMUX). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ABT:TMUX output message will follow.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:TMUX
RMV:TMUX
RST:TMUX

Output Message(s):

ABT:TMUX

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1510 (DNUS STATUS)

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ABT:TRIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a PCT (Peripheral Control and Timing) link tributary.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the **REFERENCES** section of this message.

WARNING: This command causes the intended process to be purged. It can also cause a variable number of other purges, asserts, and audit reports. Under normal circumstances, use the STP command. Use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified PCT (Peripheral Control and Timing) line and trunk unit link circuit.

2. FORMAT

```
ABT:[a,]TRIB=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be aborted (default is the action currently executing on the tributary). Valid value(s):

`RMV` = Remove.

`RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PCT Facility Interface Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

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`PF` = Printout follows. An ABT:TRIB output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:TRIB
RST:TRIB
```

Output Message(s):

```
ABT:TRIB
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:TSESS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request to abort the subscriber line and instrument measurement (SLIM) routine mode test session.

2. FORMAT

```
ABT:TSESS,SESS=a;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the test session to be aborted (1-40).

4. SYSTEM RESPONSE

`IP` = Printout follows.

`NG` = No good. May also include:

- `TEST SESSION a NOT ACTIVE`
- `TEST SESSION a NOT DEFINED`

5. REFERENCES

MCC Display Page(s):

162 (TESTSESSION STATUS)

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ABT:TST-LEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the line unit path exerciser (LUPEX) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes an assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:TST,LEN=a-b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:TST-LEN output message.

`RL` = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
STP:TST-LEN
TST:LEN
```

Output Message(s):

```
ABT:TST-LEN
STP:TST-LEN
TST:LEN
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ABT:TTFCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the test transmission facility common (TTFCOM) circuit be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]TTFCOM=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the TTFCOM circuit). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:TTFCOM output message.

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5. REFERENCES

Input Message(s):

```
DGN:TTFCOM
EX:TTFCOM
RMV:TTFCOM
RST:TTFCOM
STP:TTFCOM
```

Output Message(s):

```
ABT:TTFCOM
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:TUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the trunk unit channel board (TUCHBD) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]TUCHBD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the TUCHBD). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:TUCHBD output message.

5. REFERENCES

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Input Message(s):

```
DGN:TUCHBD
RMV:TUCHBD
RST:TUCHBD
STP:TUCHBD
```

Output Message(s):

```
ABT:TUCHBD
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:UCONF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the universal conference (UCONF) circuit board be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]UCONF=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the UCONF circuit board). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital service circuit unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:UCONF output message.

5. REFERENCES

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Input Message(s):

```
DGN:UCONF
EX:UCONF
RMV:UCONF
RST:UCONF
STP:UCONF
```

Output Message(s):

```
ABT:UCONF
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:UTD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the universal tone decoder (UTD) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]UTD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the UTD). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:UTD output message.

5. REFERENCES

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Input Message(s):

```
DGN:UTD
EX:UTD
RMV:UTD
RST:UTD
STP:UTD
```

Output Message(s):

```
ABT:UTD
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:UTG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on the universal tone generator (UTG) at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT:[a,]UTG=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the action currently executing on the UTG). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ABT:UTG output message.

5. REFERENCES

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Input Message(s):

```
DGN:UTG
EX:UTG
RMV:UTG
RST:UTG
STP:UTG
```

Output Message(s):

```
ABT:UTG
```

Input Appendix(es):

```
APP:RANGES
```

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ABT:VT15

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on a virtual tributary - level 1.5 (VT15) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified VT15 facility.

2. FORMAT

```
ABT:[a,]VT15=b-c-d-e-f-g-h;
```

3. EXPLANATION OF MESSAGE

`a` = Action being aborted (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ABT:VT15 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:VT15
RST:VT15
STP:VT15
```

Output Message(s):

```
ABT:VT15
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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7. ACTV

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ACTV:OMDB

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the active (incore) output message database (OMDB) be refreshed from the OMDB disk file.

2. FORMAT

```
ACTV:OMDB;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress. Followed by the ACTV:OMDB output message.

5. REFERENCES

Input Message(s):

```
OP:OMDB
UPD:OMDB
```

Output Message(s):

```
ACTV:OMDB
```

Other Manual(s):
235-105-250A *Craft Terminal Lockout Job Aid*

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8. ADD

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ADD:PAUTH

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Adds a new person identity (IDENT) with its related password (PSSWD) to the person authority (PAUTH) database.

This input message is not printed (echoed) on the read-only printer (ROP) in order to keep passwords private.

This input message is used in administering security of the maintenance interface. Refer to the Authority Management section of the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
ADD:PAUTH,IDENT="a",PSSWD="b";
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the person that uses the password, in one to eight letters and/or digits. To avoid collisions with terminal identities, person identities may not begin with "tty" and equal four characters in length.

`b` = Password in six to thirteen characters.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `PASSWORD ILLEGAL LENGTH` = The given password is less than six characters or greater than 13 characters in length.
- `PERSON IDENTITY NOT UNIQUE` = The given person identity already exists in the person authority database or the person identity is four characters in length and begins with "tty".
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The person authority database is inaccessible.

`OK` = Good. The identity and password are added to the person authority database.

`RL` = Retry later. Valid value(s):
- `AUTHORITY ADMINISTRATION UNDER UPDATE` = The person authority database is currently being updated.

5. REFERENCES

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Input Message(s):

```
CHG:PAUTH
CHG:PSSWD
DEL:PAUTH
VFY:PAUTH
```

Output Message(s):

```
VFY:PAUTH
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

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ADD:PCGRP

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

This input message adds a command group or profile to the person-command group (PCGRP) relation for the given person identity (IDENT).

Format 1 associates a command group (COMGR) with a person identity (IDENT), allowing a user to access the messages in the command group. Format 2 associates a profile (PROFL) with an IDENT, allowing a user to access all the messages associated with a set of command groups. These input messages are used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
[1]    ADD:PCGRP:IDENT=a,COMGR=b;

[2]    ADD:PCGRP:IDENT=a,PROFL=c;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the person in one to eight letters and/or digits.

`b` = Command group. Valid value(s):

`ADMIN`	= System administrator only activities.
`ALARM`	= Alarm manipulation.
`AM`	= Administrative module maintenance.
`AMA`	= Automatic message accounting.
`AUDIT`	= Audits.
`AUTH`	= Command and authority administration.
`CCS`	= Common channel signaling.
`CM`	= Communications module maintenance.
`FHADM`	= File handling and administration.
`MAINT`	= Routine maintenance activities.
`MEAS`	= Measurements.
`NMOC`	= Network management and overload control.
`ODD`	= Office dependent data activities.
`PASS`	= Personal password modification.
`RCV`	= Recent change and verify activities.
`SM`	= Switching module maintenance.
`SPECRCV`	= Special RC/V input messages.
`SFTMGT`	= Software management (update, software release retrofit).
`SFTUTIL`	= Software utilities.
`SUPERUSR`	= Super user authority (bypass terminal authority).
`SYSRCVY`	= System recovery activities.
`TRACE`	= Call trace.
`TRKLN`	= Trunk and line maintenance.

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Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

c = A profile name which has been previously created using ADD:PROFL. The name is one to eight letters and/or digits.

4. SYSTEM RESPONSE

NG = No good. May also include:
- COMMAND GROUP ALREADY ASSIGNED TO THIS PERSON = The given command group has already been assigned to this person identity.
- NON-EXISTENT PERSON IDENTITY = The given person identity does not exist in the person authority database.
- PROFILE ALREADY ASSIGNED = The given command profile (PROFL) has already been assigned to this person identity.
- PROFILE IDENTITY DOES NOT EXIST = The given profile does not exist in the profile authority database.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database is inaccessible.

OK = Good. The command group or profile is associated with the person identity.

RL = Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):

```
ADD:PAUTH
ADD:PCGRP
ADD:PROFL
CHG:PROFL
DEL:PAUTH
DEL:PCGRP
DEL:PROFL
VFY:PAUTH
VFY:PCGRP
VFY:PROFL
```

Output Message(s):

```
VFY:PAUTH
VFY:PCGRP
VFY:PROFL
```

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Input Appendix(es):

```
APP:COMMAND-GRP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

ADD:PROFL

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Adds a new profile identity (IDENT) to the profile authority database (PROFL). A profile is a set of command groups, which are detailed in the APP:COMMAND-GRP appendix of the Input Messages manual. A maximum of 64 profiles are allowed.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
ADD:PROFL,IDENT=a;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the profile to be added to the profile authority database. A maximum of eight characters may be used.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `MAXIMUM NUMBER OF PROFILES EXCEEDED` = The maximum of 64 profiles are already defined.
- `PROFILE IDENTITY NOT UNIQUE` = The given profile identity is already in the profile authority database.
- `UNABLE TO ACCESS PROFILE ADMINISTRATION` = The profile authority database is inaccessible.

`OK` = Good. The profile name is successfully added to the profile authority database.

`RL` = Retry later. May also include:
- `PROFILE ADMINISTRATION UNDER UPDATE` = The profile authority database is currently being updated.

5. REFERENCES

Input Message(s):

```
ADD:PCGRP
ADD:TCGRP
CHG:PROFL
DEL:PCGRP
DEL:PROFL
```

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```
DEL:TCGRP
VFY:PCGRP
VFY:PROFL
VFY:TCGRP
```

Output Message(s):

```
VFY:PCGRP
VFY:PROFL
VFY:TCGRP
```

Input Appendix(es):

```
APP:COMMAND-GRP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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ADD:TAUTH

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Adds a terminal identity (TERM) to the terminal authority (TAUTH) database.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
ADD:TAUTH:TERM=a;
```

3. EXPLANATION OF MESSAGE

`a` = Terminal identity in four characters, starting with "tty".

4. SYSTEM RESPONSE

`NG` No good. May also include:
- `INVALID TERMINAL IDENTITY` = The given terminal identity is either not four characters in length or does not start with "tty".
- `TERMINAL IDENTITY ALREADY EXISTS` = The given terminal identity already exists in the terminal authority database.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The terminal authority database is inaccessible.

`OK` = Good. The terminal identity is added to the terminal authority database.

`RL` = Retry later. May also include:
- `AUTHORITY ADMINISTRATION UNDER UPDATE` = The terminal authority database is currently being updated.

5. REFERENCES

Input Message(s):

```
DEL:TAUTH
VFY:TAUTH
```

Output Message(s):

```
VFY:TAUTH
```

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Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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ADD:TCGRP

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

This command adds a command group or profile to the terminal-command group (TCGRP) relation for a given terminal identity (TERM).

Format 1 associates a command group (COMGR) with a terminal identity (TERM), allowing a user to access the messages in the command group from that terminal. Format 2 associates a profile (PROFL) with a TERM, allowing a user to access all the messages associated with a set of command groups from that terminal. This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
[1]    ADD:TCGRP:TERM=a,COMGR=b;

[2]    ADD:TCGRP:TERM=a,PROFL=c;
```

3. EXPLANATION OF MESSAGE

`a` = Terminal identity in four characters. The first three characters must be "tty". The fourth character must be the terminal ID.

`b` = Command group. Valid value(s):

`ADMIN`	= System administrator only activities.
`ALARM`	= Alarm manipulation.
`AM`	= Administrative module maintenance.
`AMA`	= Automatic message accounting.
`AUDIT`	= Audits.
`AUTH`	= Command and authority administration.
`CCS`	= Common channel signaling.
`CM`	= Communications module maintenance.
`FHADM`	= File handling and administration.
`MAINT`	= Routine maintenance activities.
`MEAS`	= Measurements.
`NMOC`	= Network management and overload control.
`ODD`	= Office dependent data activities.
`PASS`	= Personal password modification.
`RCV`	= Recent change and verify activities.
`SM`	= Switching module maintenance.
`SPECRCV`	= Special RC/V input messages.
`SFTMGT`	= Software management (update, software release retrofit).
`SFTUTIL`	= Software utilities.
`SUPERUSR`	= Super user authority (bypass terminal authority).
`SYSRCVY`	= System recovery activities.
`TRACE`	= Call trace.

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TRKLN = Trunk and line maintenance.

Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

c = A profile name which has been previously created using ADD:PROFL. The name is one to eight letters and/or digits.

4. SYSTEM RESPONSE

NG = No good. May also include:
- COMMAND GROUP ALREADY ASSIGNED TO THIS TERMINAL = The given command group has already been assigned to this terminal identity.
- INVALID TERMINAL IDENTITY = The given terminal identity is either not four characters in length or does not start with "tty".
- NON-EXISTENT TERMINAL IDENTITY = The given terminal identity does not exist in the terminal authority database.
- PROFILE ALREADY ASSIGNED = The given command profile (PROFL) has already been assigned to this terminal identity.
- PROFILE IDENTITY DOES NOT EXIST = The given profile does not exist in the profile authority database.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The terminal authority database is inaccessible.

OK = Good. The command group or profile is associated with the terminal identity.

RL = Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The terminal authority database is currently being updated.

5. REFERENCES

Input Message(s):

```
ADD:PROFL
ADD:TAUTH
CHG:PROFL
DEL:PROFL
DEL:TAUTH
DEL:TCGRP
VFY:PROFL
VFY:TAUTH
VFY:TCGRP
```

Output Message(s):

```
VFY:PROFL
VFY:TAUTH
```

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```
VFY:TCGRP
```

Input Appendix(es):

```
APP:COMMAND-GRP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

9. ALW

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ALW:ACSR

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that automatic customer station rearrangement (ACSR) requests be added or deleted from the ACSR queue. Machine-generated inhibitions of ACSR cannot be overridden with this input message.

2. FORMAT

```
ALW:ACSR,{ENQ|DEQ|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Allow adding and deleting of ACSR requests.

`DEQ` = Allow deleting (dequeueing) of ACSR requests.

`ENQ` = Allow adding (enqueueing) of ACSR requests.

4. SYSTEM RESPONSE

`OK` = Good. ACSR enqueueing or dequeueing request was received.

5. REFERENCES

Input Message(s):

```
INH:ACSR
OP:STAT
```

Output Message(s):

```
OP:STAT
```

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ALW:ALE-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the operation of automatic line evaluation (ALE) be allowed for the specified option.

The parameters are grouped into three classes.

Automatic ALE session output controls: The parameters LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session.

The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.

Switching module (SM) controls: The SM parameters control the behavior of the level 1 performance monitoring and protocol error record (PER) generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for any of the U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL.

Automatically generated reports as well as the actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not resume for a period of up to 5 minutes.

If the PER generation parameter is inhibited, then no PERs will be recorded for any integrated services digital network (ISDN) protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel.

Line/trunk controls: Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks.

If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel.

Format 1 is used to allow the automatic session controls.

Format 2 is used to allow the SM control parameters.

Format 3 is used to allow the PER generation for a ISDN protocol channel.

The level 1 control parameters for U-interface DSLs are manipulated using the RC/V view 8.1 and 22.15 for

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performance monitoring group definitions.

Example 1: .ce `ALW:ALE,LEVEL2,PER=REPT,PRINT`

will allow the LEVEL2, PER=REPT, and PRINT controls allowing the execution of the LEVEL2 and PER jobs for automatically initiated ALE sessions. In addition, this message indicates that the results from the automatic session will be printed on the ROP.

Example 2: .ce `ALW:ALE,PER=GEN,SM=7`

will allow the PER generation control that enables the collection of PERs on SM 7.

Example 3:

`ALW:ALE,PER=GEN,DN=2204000`

will allow the PER generation control that enables the collection of PERs for the D-channel associated with the DSL for DN 2204000. In this case, the SM inhibit supersedes the channel inhibit; therefore, if the SM is inhibited, then PERs will not be collected for the channel regardless of the state of the channel inhibit.

2. FORMAT

`[1]` `ALW:ALE{[,LEVEL2][,PRINT][,PER=REPT]};`

`[2]` `ALW:ALE,SM=a[&&b]{[,LEVEL1][,PER=GEN]};`

`[3]` `ALW:ALE,c[,CH=a`[1]`],PER=GEN;`

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`LEVEL1` = Allow level 1 performance monitoring for the indicated SM. The default is level 1 allowed.

`LEVEL2` = Process level 2 error counts. These counters exist in the protocol handler (PH). Allowing level 2 automatic ALE will report packet error counts and automatically reset the counters. The default is level 2 allowed.

`PER=GEN` = Allow PER generation for the indicated SM or channel. The default is that PER generation is allowed for the indicated SM or channel.

`PER=REPT` = Allow PER reporting for the automatically requested ALE sessions. The default is that PER reporting is allowed. Set the specified protocol error record (PER) parameters.

`PRINT` = Send output to the receive-only printer (ROP). The default is ROP output allowed.

`a` = SM number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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c = Line identification. Valid value(s):

AIUEN=f-n[1]-o[1]-p[1]
BST=d-e
DEN=f-g-h-i
DN=j
DNUSEOC=f-h[1]-n-o
DNUSTMC=f-h[1]-n-o
DSLGM=f-b[1]-k-l
IDCUEOC=f-m-n-o
IDCUTMC=f-m-n-o
ILEN=f-m-n-p
INEN=f-h[1]-n-p
LCEN=f-q-r-s
LCKEN=f-e[1]-m[1]-f[1]-g[1]
MLHG=t-u
NEN=f-h[1]-i[1]-q[1]-j[1]-k[1]-r[1]-l[1]
OAPO=d
OPT=d-e
PKTDN=j
PLTEN=f-s[1]-t[1]-u[1]-v[1]
PORT=f-v
PSUEN=f-b[1]-c[1]-d[1]-l
RTRS=w-x
TKGMN=y-z
VBRI=f-w[1]
VTRK=f-x[1]-y[1]

d = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = The directory number associated with the port. This parameter can only be used to identify channels associated with DSLs.

k = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`l` = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Channel type to be allowed (valid only for LCEN line identification). Valid value(s):

`B1` = Channel B1.
`B2` = Channel B2.
`D` = D-channel (default).

`b`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`c`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = Peripheral control and timing (PCT) line and trunk unit number (PLTU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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u[1] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. This message was not recognized or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature is not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred.
- INVALID INPUT = Parameter to allow does not match entity to allow.
- PROCESS CREATION FAILURE = A system error has occurred.

OK = Good. Requested parameter has been allowed.

PF = Printout follows. Requested parameter allow has been initiated. Followed by the ALW:ALE output message.

RL = Retry later. May also include:
- AM IN MIN MODE = The AM is in minimum operation mode.
- REQUEST ALREADY IN PROGRESS = An ALE allow request is already running. Only one allow request is permitted at a time.

5. REFERENCES

Input Message(s):

```
EXC:ALE
INH:ALE
OP:ALE
```

Output Message(s):

```
ALW:ALE
EXC:ALE
INH:ALE
OP:ALE
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-600-755 *Protocol Error Record Descriptions*

RC/V View(s):
8.1 OFFICE PARAMETERS (MISCELLANEOUS)
22.15 PERFORMANCE MONITORING - THRESHOLD GROUP

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ALW:ALE-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the operation of automatic line evaluation (ALE) be allowed for the specified option.

The parameters are grouped into three classes.

Automatic ALE session output controls: The parameters LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session.

The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.

Switching module (SM) controls: The SM parameters control the behavior of the level 1 performance monitoring and protocol error record (PER) generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for any of the U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL.

NOTE: Automatically generated reports as well as the actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not resume for a period of up to 5 minutes.

If the PER generation parameter is inhibited, then no PERs will be recorded for any integrated services digital network (ISDN) protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel.

Line/trunk controls: Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks.

After the introduction of PCF on PHE2 feature, ALE doesn't provide performance monitoring error count information on A10/A11/ETHERNET protocols, but PER is able to provide the protocol error histories on A10/A11/ETHERNET protocols on PCF PH. There are two kinds of PERs: level 2 and level 7. Level 2 PER retrieves the ethernet protocol error histories stored in the PH. Level 7 retrieves A10/A11 error histories stored in PH.

If the PER generation inhibit is active, then no PERs will be recorded for either the ISDN protocol channel or PCF PH.

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Format 1 is used to allow the automatic session controls, only applies to ISDN ALE session.

Format 2 is used to allow the SM control parameters, applies to both ISDN channel and PCF PH. But for PCF PH, PER is a required key and LEVEL1 is not applicable.

Format 3 is used to allow the PER generation for a ISDN protocol channel.

Format 4 is used to allow the PER generation for PCF PH.

The level 1 control parameters for U-interface DSLs are manipulated using the RC/V view 8.1 and 22.15 for performance monitoring group definitions.

Example 1:

```
ALW:ALE,LEVEL2,PER=REPT,PRINT
```

will allow the LEVEL2, PER=REPT, and PRINT controls allowing the execution of the LEVEL2 and PER jobs for automatically initiated ALE sessions. In addition, this message indicates that the results from the automatic session will be printed on the ROP.

Example 2:

```
ALW:ALE,PER=GEN,SM=7
```

will allow the PER generation control that enables the collection of PERs on SM 7, not only for the ISDN channels, but also for the PCF PH, if the PCF on PHE2 feature is activated.

Example 3:

```
ALW:ALE,PER=GEN,DN=2204000
```

will allow the PER generation control that enables the collection of PERs for the D-channel associated with the DSL for DN 2204000. In this example, the SM inhibit supersedes the channel inhibit; if the SM is inhibited, then PERs will not be collected for the channel regardless of the state of the channel inhibit.

Example 4:

```
ALW:ALE,PER=GEN,PCFIP=193.193.193.193
```

will allow the PER generation control that enables the collection of PERs associated with the PCF PH for PCF IP address 193.193.193.193. In this example, the SM inhibit supersedes the channel inhibit; therefore, if the SM is inhibited, then PERs will not be collected for the PCF PH regardless of the state of the PCF PH inhibit.

2. FORMAT

```
[1]    ALW:ALE{[,LEVEL2][,PRINT][,PER=REPT]};
       ___________________________________________________________

[2]    ALW:ALE,SM=a[&&b]{[,LEVEL1][,PER=GEN]};
       ___________________________________________________________

[3]    ALW:ALE,c[,CH=a1],PER=GEN;
       ___________________________________________________________

[4]    ALW:ALE,PCFIP=z1-z1-z1-z1,PER=GEN;
```

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3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`LEVEL1` = Allow level 1 performance monitoring for the indicated SM. The default is level 1 allowed.

`LEVEL2` = Process level 2 error counts. These counters exist in the protocol handler (PH). Allowing level 2 automatic ALE will report packet error counts and automatically reset the counters. The default is level 2 allowed.

`PER=GEN` = Allow PER generation for the indicated SM or channel. The default is that PER generation is allowed for the indicated SM or channel.

`PER=REPT` = Allow PER reporting for the automatically requested ALE sessions. The default is that PER reporting is allowed. Set the specified PER parameters.

`PRINT` = Send output to the receive-only printer (ROP). The default is ROP output allowed.

`a` = SM number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line identification. Valid value(s):

`AIUEN=f-n`[1]`-o`[1]`-p`[1]
`BST=d-e`
`DEN=f-g-h-i`
`DN=j`
`DNUSEOC=f-h`[1]`-n-o`
`DNUSTMC=f-h`[1]`-n-o`
`DSLGM=f-b`[1]`-k-l`
`IDCUEOC=f-m-n-o`
`IDCUTMC=f-m-n-o`
`ILEN=f-m-n-p`
`INEN=f-h`[1]`-n-p`
`LCEN=f-q-r-s`
`LCKEN=f-e`[1]`-m`[1]`-f`[1]`-g`[1]
`MLHG=t-u`
`NEN=f-h`[1]`-i`[1]`-q`[1]`-j`[1]`-k`[1]`-r`[1]`-l`[1]
`OIUEN=f-a`[2]`-b`[2]`-c`[2]`-d`[2]`-k`[1]`-r`[1]`-l`[1]
`OAPO=d`
`OPT=d-e`
`PKTDN=j`
`PLTEN=f-s`[1]`-t`[1]`-u`[1]`-v`[1]
`PORT=f-v`
`PSUEN=f-b`[1]`-c`[1]`-d`[1]`-l`
`RTRS=w-x`
`TKGMN=y-z`

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```
VBRI=f-w[1]
VTRK=f-x[1]-y[1]
```

d = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = The directory number associated with the port. This parameter can only be used to identify channels associated with DSLs.

k = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`u` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Channel type to be allowed (valid only for LCEN line identification). Valid value(s):

`B1`	= Channel B1.
`B2`	= Channel B2.
`D`	= D-channel (default).

`b`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`l`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = Peripheral control and timing (PCT) line and trunk unit number (PLTU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = IP address field. Valid value is 0-255.

`a`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d`[2] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. This message was not recognized or was not acceptable. May also include:
- `ALE FEATURE NOT LOADED` = The ALE feature is not loaded in the switch software configuration.
- `COMMUNICATION FAILURE` = A system error has occurred.
- `INVALID INPUT` = Parameter to allow does not match entity to allow.
- `PROCESS CREATION FAILURE` = A system error has occurred.

`OK` = Good. Requested parameter has been allowed.

`PF` = Printout follows. Requested parameter allow has been initiated. Followed by the ALW:ALE output message.

`RL` = Retry later. May also include:
- `AM IN MIN MODE` = The AM is in minimum operation mode.
- `REQUEST ALREADY IN PROGRESS` = An ALE allow request is already running. Only one allow request is permitted at a time.

5. REFERENCES

Input Message(s):

`EXC:ALE`
`INH:ALE`
`OP:ALE`

Output Message(s):

`ALW:ALE`
`EXC:ALE`
`INH:ALE`
`OP:ALE`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-600-755 *Protocol Error Record Descriptions*

RC/V View(s):

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8.1 OFFICE PARAMETERS (MISCELLANEOUS)
22.15 PERFORMANCE MONITORING - THRESHOLD GROUP

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ALW:ALM-A

Software Release: 5E15 - 5E16(1)
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that alarm reporting on a scan point be allowed, according to type. Formats 1 through 4 are for alarms assigned to input/output processor (IOP) scan points. Format 5 is for alarms assigned to remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) metallic service unit (MSU) scan points and is available only in a multimodule RSM, ORM or TRM that has the alarm input option. Format 6 is for alarms assigned to remote alarm section (RAS) scan points. Format 7 is for alarms assigned to expansion access interface unit (EAIU) scan points.

2. FORMAT

```
[1]    ALW:ALM,{BPSC=a|MFFUSE=b|MFFAN|MISC=c};

[2]    ALW:ALM,ESM[,PWR];

[3]    ALW:ALM,CNI,{FANALM|FRMFUSE|PWR};

[4]    ALW:ALM,{MSGS=b|ONTC=b|TMS=b},{FANALM|FRMFUSE};

[5]    ALW:ALM,RBPSC=d,SM=e;

[6]    ALW:ALM,RAS,SCPT=f,SITE=g;

[7]    ALW:ALM,EAIU=e-h,SCPT=f;
```

3. EXPLANATION OF MESSAGE

`CNI` = Common network interface.

`ESM` = External sanity monitor.

`FANALM` = Fan alarm.

`FRMFUSE` = Frame fuse alarm.

`MFFAN` = Miscellaneous frame fan.

`MFFUSE` = Miscellaneous frame fuse.

`MSGS` = Message switch.

`ONTC` = Office network timing complex.

`PWR` = Power.

`SCPT` = Scan point.

`TMS` = Time multiplexed switch.

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a = Building/power scan point (BPSC) number.

b = Unit number. MSGS and TMS are for CM1 offices only. ONTC is for CM2 offices only.

c = Miscellaneous (MISC) IOP scan point number.

d = Remote building/power scan point (RBPSC) number.

e = Switching module (SM) number.

f = Scan point number.

g = Remote peripheral site number.

h = EAIU unit number.

4. SYSTEM RESPONSE

NG = No good. Invalid scan point, SM number or site number.

PF = Printout follows. The ALW:ALM output message follows.

RL = Retry later. Unable to process request or unable to communicate with SM.

5. REFERENCES

Input Message(s):

```
INH:ALM
OP:ALM
```

Output Message(s):

```
ALW:ALM
INH:ALM
REPT:ALM
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

105/106 (BLDG/POWER & ALARM CNTRLS)
119 (MISCELLANEOUS ALARMS)
1400 (RSM BLDG/PWR ALARMS)
1420 (RAS ALARMS)
1640 (REMOTE PERPH MISC ALARMS)

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ALW:ALM-B

Software Release: 5E16(2) and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that alarm reporting on a scan point be allowed, according to type.

Formats 1 through 4 are for alarms assigned to input/output processor (IOP) scan points.

Format 5 is for alarms assigned to remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) metallic service unit (MSU) scan points and is available only in a multimodule RSM, ORM, or TRM that has the alarm input option.

Format 6 is for alarms assigned to remote alarm section (RAS) scan points.

Format 7 is for alarms assigned to expansion access interface unit (EAIU) scan points.

2. FORMAT

```
[1]    ALW:ALM,{BPSC=a|MFFUSE=b|MFFAN|MISC=c|ASMCF};
       ____________________________________________________________

[2]    ALW:ALM,ESM[,PWR];
       ____________________________________________________________

[3]    ALW:ALM,CNI,{FANALM|FRMFUSE|PWR};
       ____________________________________________________________

[4]    ALW:ALM,{MSGS=b|ONTC=b|TMS=b},{FANALM|FRMFUSE};
       ____________________________________________________________

[5]    ALW:ALM,RBPSC=d,SM=e;
       ____________________________________________________________

[6]    ALW:ALM,RAS,SCPT=f,SITE=g;
       ____________________________________________________________

[7]    ALW:ALM,EAIU=e-h,SCPT=f;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ASMCF` = ASMC cabinet fuse.

`CNI` = Common network interface.

`ESM` = External sanity monitor.

`FANALM` = Fan alarm.

`FRMFUSE` = Frame fuse alarm.

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`MFFAN` = Miscellaneous frame fan.

`MFFUSE` = Miscellaneous frame fuse.

`MSGS` = Message switch.

`ONTC` = Office network timing complex.

`PWR` = Power.

`SCPT` = Scan point.

`TMS` = Time multiplexed switch.

`a` = Building/power scan point (BPSC) number.

`b` = Unit number. MSGS and TMS are for CM1 offices only. ONTC is for CM2 offices only.

`c` = Miscellaneous (MISC) IOP scan point number.

`d` = Remote building/power scan point (RBPSC) number.

`e` = Switching module (SM) number.

`f` = Scan point number.

`g` = Remote peripheral site number.

`h` = EAIU unit number.

4. SYSTEM RESPONSE

`NG` = No good. Invalid scan point, SM number or site number.

`PF` = Printout follows. Followed by the ALW:ALM output message.

`RL` = Retry later. Unable to process request or unable to communicate with SM.

5. REFERENCES

Input Message(s):

```
INH:ALM
OP:ALM
```

Output Message(s):

```
ALW:ALM
INH:ALM
REPT:ALM
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

105/106	BLDG/POWER & ALARM CNTRLS
119	MISCELLANEOUS ALARMS
1400	RSM BLDG/PWR ALARMS
1420	RAS ALARMS
1640	REMOTE PERPH MISC ALARMS

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ALW:AMA-AUTOST

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that automatic message accounting (AMA) automatic tape writing be allowed. This input message is required following offline AMA automatic tape-writing sessions during software transitions since AMA sessions are inhibited when these sessions are ended.

2. FORMAT

```
ALW:AMA:AUTOST[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

NOTE: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`IP` = In progress. Request accepted. The AMA monitor process has been called to cancel manual blocking of AMA automatic tape writing sessions previously blocked using the INH:AMA-AUTOST message. When the request is complete, the contents of the AMA control file will be output. Refer to the REPT:AMA-CONT output message.

`NG` = No good. Data stream checks failed.

`RL` = Retry later. A message could not be sent to the AMA monitor process. May also include:

`- EVEN OFFLINE MHDS COULD NOT BE ACCESSED` = Disk file controller (DFC) 0 could not be accessed in the equipment configuration database (ECD) or is not active (ACT) and/or DFC 2 can be accessed in the ECD but is not ACT or unequipped (UNEQIP). When this is the case, wait until all controllers for the even offline moving head disks (MHDs) are restored, or restore the appropriate controller using the RST:DFC input message with the UCL option. This message could occur prior to an offline AMA session during software transitions.

5. REFERENCES

Input Message(s):

`INH:AMA-AUTOST`

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```
OP:AMA-CONTROLF
OP:AMA-STREAM
RST:DFC
```

Output Message(s):

```
REPT:AMA-CONT
REPT:AMA-TAPE-WHB
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x *Generic Retrofit Procedures*

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ALW:AMA-SESSION

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that automatic message accounting (AMA) teleprocessing sessions or tape writing sessions be allowed. This input message is required following offline AMA sessions during software transitions since AMA sessions are inhibited when these sessions end.

WARNING: It is important to note that since sessions following an offline tape or AMATPS session are being inhibited, that the user invoke the OP:AMA-DISK input message prior to the next session. If this is not done prior to the next ALW:AMA-SESSION and/or ALW:AMA-AUTOST and the amount of data on the offline disks is 0% and 0 block (no more data) as indicated by the termination message from the last session, it will be necessary to manually remove the retrofit site file (/updtmp/site/access.oflama).

2. FORMAT

```
ALW:AMA:SESSION[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

NOTE: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`IP` = In progress. Request accepted. The AMA monitor process has been called to allow AMA teleprocessing or tape writing sessions that were inhibited with the INH:AMA-SESSION message. When the request is complete, the contents of the AMA control file will be output. Refer to the REPT:AMA-CONT output message.

`NG` = No good. Data stream checks failed.

`RL` = Retry later. A message could not be sent to the AMA monitor process. May also include:
`- EVEN OFFLINE MHDS COULD NOT BE ACCESSED` = Disk file controller (DFC) 0 could not be accessed in the equipment configuration database (ECD) or is not active (ACT) and/or DFC 2 can be accessed in the ECD but is not ACT or unequipped (UNEQIP). When this is the case, wait until all controllers for the even offline moving head disks (MHDs) are restored, or restore the

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appropriate controller using the RST:DFC input message with the UCL option. This message could occur prior to an offline AMA session during software transitions.

5. REFERENCES

Input Message(s):

```
INH:AMA-SESSION
OP:AMA-CONTROLF
OP:AMA-DISK
OP:AMA-STREAM
RST:DFC
```

Output Message(s):

```
REPT:AMA-CONT
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x *Generic Retrofit Procedures*

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ALW:AMAIRR

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of data related to an automatic message accounting irregularity (AMAIRR) be allowed when and if such an irregularity occurs.

2. FORMAT

```
ALW:AMAIRR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK	= Good. The request has been received. A REPT:AMAIRR message will be printed for each subsequent call for which automatic message accounting cannot be determined.

5. REFERENCES

Input Message(s):

```
INH:AMAIRR
```

Output Message(s):

```
REPT:AMAIRR
```

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ALW:AMALOST

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of data related to a lost automatic message accounting (AMALOST) record be allowed when and if such a loss occurs.

2. FORMAT

```
ALW:AMALOST[,TRC];
```

3. EXPLANATION OF MESSAGE

TRC	= Invoke an AMA trace of an AMALOST record if either a complete or a partial AMA record exists.

4. SYSTEM RESPONSE

OK	= Good. The request has been received. All subsequent occurrences of lost AMA records will print an information report (REPT:AMALOST).

5. REFERENCES

Input Message(s):

```
INH:AMALOST
```

Output Message(s):

```
REPT:AMALOST
REPT:AMATRC
```

Other Manual(s):
235-190-101 *Business and Residence Modular Features*
235-190-300 *Billing Features*

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ALW:AMATRC

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Format 1 requests that the printing of an automatic message accounting (AMA) record be allowed on the receive-only printer (ROP) for a specific originating and/or terminating directory number (DN). When an AMA record is generated whose originating or terminating DN matches any of the up to 5 DN(s) selected (that is, DN and PS flag are equal) the AMA record will be printed on the ROP.

NOTE: When placing a call to an INWATS or feature group A (FGA) facility the DN associated with the INWATS or FGA facility will be placed in the originating DN field of the AMA record.

With multiple DN tracing allowed, a maximum of five DNs can be entered for tracing. Without multiple DN tracing, a maximum of one DN can be entered for tracing. When a DN entered for tracing matches an existing DN, the trace option will be overwritten by the trace option of the DN entered. Refer to the Billing Features and Specifications manual for additional information about this feature.

NOTE: If several simultaneous (on average 7 or more) AMA records are generated matching the selected DN, there is a possibility that the ROP will get flooded and some AMA records may not get printed. The number that can be printed is dependent on the length of the individual records, as well as the size of the shared memory buffer available between the operational kernel process (OKP) and AM system processes.

Format 2 requests that each AMA record that is sent to the ROP using AMATRC be placed in the AMTRCLOG log file. When the FILE parameter is specified, each time a AMA record whose originating or terminating number matches any of the existing DN(s) is generated, the record will be printed on the ROP. In addition to being sent to the ROP the AMA record will be placed in the AMTRCLOG log file.

2. FORMAT

```
[1]    ALW:AMATRC:DN=a[,PS][,b];

[2]    ALW:AMATRC:FILE;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`FILE` = Requests that AMATRC output be placed in the AMATRC Log File in addition to the ROP.

`a` = The seven- or ten-digit directory number.

`b` = The option for tracing ORIG, TERM, or BOTH. The default will be ORIG if option for tracing is omitted.

4. SYSTEM RESPONSE

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NG = No good. May also include:
- INVALID DIGIT ENTERED = Only digits, no alpha or special characters are accepted.
- SEVEN OR TEN DIGITS REQUIRED = Either seven or ten digits are required to perform the trace if the Number Portability - NPA/NXX Growth feature is not ACTIVE
- 10 DIGIT DN REQUIRED = Ten digits are required to perform the trace if the Number Portability - NPA/NXX Growth feature is ACTIVE
- EXCEEDED 5 DN LIMIT = One or more DNs must be inhibited before another DN can be allowed for tracing.

OK = Good. The request has been received. All subsequent AMA entries generated with the given originating or terminating directory number will be printed on the ROP. Refer to the REPT:AMATRC output message.

5. REFERENCES

Input Message(s):

```
INH:AMATRC
OP:AMATRC
OP:LOG
```

Output Message(s):

```
REPT:AMATRC
OP:AMATRC
```

Other Manual(s):
235-190-300 *Billing Features and Specifications*
235-190-127 *Number Portability User's Guide*

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ALW:AUD-CMP

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that a communication module processor (CMP) audit be allowed to execute automatically or an audit cycle to execute routinely on one CMP.

2. FORMAT

```
ALW:AUD[=a],CMP=0;
```

3. EXPLANATION OF MESSAGE

`a` = Audit ID. Valid value(s):
`CYCLE` = Allow the routine execution of the audit cycle (default).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `AUDIT NOT AVAILABLE IN CMP` = The request has been denied because the audit specified in the '`a`' variable does not exist in the CMP specified.
- `INVALID CMP` = The specified CMP does not exist.

`OK` = Good. The request has been received and completed. Audit or cycle has been allowed.

5. REFERENCES

Input Message(s):

```
INH:AUD
```

Other Manual(s):
235-600-400 *Audits*

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ALW:AUD-ENV

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Allows a kernel process environment (OKP or SMKP) audit to execute automatically or allows an audit cycle in the administrative module (AM) to execute routinely.

2. FORMAT

```
ALW:AUD[=a],ENV=b;
```

3. EXPLANATION OF MESSAGE

`a` = Audit(s) to be allowed. Valid value(s):
`Audit ID`
`CYCLE` = Routine audit cycle.

`b` = Type of process. Valid value(s):
`OKP` = Operational kernel process.
`SMKP` = Switch maintenance kernel process.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ARGUMENT FOR ENV MISSING` = The request has been denied because neither OKP nor SMKP were specified for variable '`b`'.
- `AUDIT NOT AVAILABLE IN SPECIFIED ENV` = The request has been denied because the specified audit is not available in the requested kernel process.
- `SM TYPE NOT VALID FOR THIS REQUEST` = The request has been denied because an SM type (RSM, LSM, or HSM) was specified for a kernel process environment.

`OK` = Good. The request has been received and completed. Audit or audit cycle has been allowed.

5. REFERENCES

Input Message(s):

`INH:AUD`

Other Manual(s):
235-600-400 *Audits*

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ALW:AUD-SM

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Allows a switching module (SM) audit to execute automatically or an audit cycle to execute routinely on one SM or a range of SMs.

2. FORMAT

```
ALW:AUD[=a],SM=b[&&c][,RSM][,LSM][,HSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Audit(s) to be allowed. The default is CYCLE. Valid value(s):

`Audit ID`

`CYCLE` = Allow the routine execution of the audit cycle.

`b` = SM number, or lower limit of a range of SM number. The default is any type of SM.

`c` = Upper limit of a range of SM number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `AUDIT NOT AVAILABLE IN SM TYPE` = The request has been denied because the audit specified in the 'a' variable does not exist in the SM type specified or does not exist in any SM type.
- `INVALID SM RANGE/TYPE COMBINATION` = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type (or any type) within the range.

`OK` = Good. The request has been received and completed. Audit or cycle has been allowed.

`RL` = Retry later. May also include:

- `MESSAGE BROADCAST INTERNAL ERROR` = The message cannot be sent to the specified SM(s) at the present time due to problems scheduling a job to broadcast the message.

5. REFERENCES

Input Message(s):

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```
INH:AUD
```

Other Manual(s):
235-600-400 *Audits*

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ALW:AUD-SODD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that either the full or incremental static office-dependent data (SODD) audit, which is to execute automatically, be allowed. The full audit will restart provided there are at least 15 minutes remaining in the audit schedule (refer to the SCHED:AUD-SODD input message.) The incremental audit will restart provided there are unaudited log files from the last ODD backup.

2. FORMAT

```
ALW:AUD=SODD,{FULL|INCR};
```

3. EXPLANATION OF MESSAGE

`FULL` = Allow the full SODD audit to be executed.

`INCR` = Allow the incremental SODD audit to be executed.

4. SYSTEM RESPONSE

`OK` = Good. The request has been received and completed; the SODD audit has been allowed.

5. REFERENCES

Input Message(s):

```
INH:AUD-SODD
OP:ST-AUD-SODD
SCHED:AUD-SODD
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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ALW:AUD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the routine execution of one or more audits controlled by the system integrity monitor (SIM) that were previously inhibited be allowed. Entering the ALW:AUD input message clears one or more audit inhibits previously set to the manually inhibited or automatically inhibited state.

Separate inhibit states are provided for:

- All audits. When the inhibit state for ALL audits is set, routine audit scheduling is completely turned off. Entering the ALW:AUD input message with the ALL option reinitializes the audit control subsystem and turns on routine audit scheduling, but it has no effect on the inhibit states of individual audits.
- Each audit, identified by audit name and member number. When an audit is inhibited, either manually or automatically, it is not scheduled to run routinely or in response to a software request.
- - Each instance of an audit. One instance of an audit may be inhibited while other instances are allowed to run routinely.

Audit inhibit states may be displayed by entering the OP:AUD input message.

2. FORMAT

```
ALW:AUD,{ALL|a[=b]|a=c,INS=d};
```

3. EXPLANATION OF MESSAGE

`ALL` = Specifies all audits controlled by SIM:

Clears a master inhibit state which is independent of the inhibit states for individual audits. Causes SIM to attempt to initialize the audit control system if it has not been successfully initialized.

If the control record in the equipment configuration data base for SIM has been modified, ALL causes SIM to reinitialize its internal control parameters according to the new content of the control record.

`a` = Audit name. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual for administrative module (AM) audit names.

NOTE: If '`a`' is specified without '`b`', all members of the audit will be allowed.

`b` = Member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual. May be specified as a single number or a list of numbers.

`c` = Single member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

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`d` = Instance name.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
INH:AUD
OP:AUD
```

Output Message(s):

```
ALW:AUD
OP:AUD
```

Input Appendix(es):

```
APP:MEM-NUM-AUD
```

Other Manual(s):
235-600-400 *Audits*

ALW:AUTOBKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that previously inhibited automated system backups be allowed to execute.

Format 1 is used to allow automated system backups to execute.

Format 2 is used to output a message indicating if automated system backups are currently allowed or inhibited. The inhibit status of automated system backups will not change. If automated system backups are inhibited at the time ALW:AUTOBKUP:STAT is executed, backups will remain inhibited.

2. FORMAT

```
[1]    ALW:AUTOBKUP;

[2]    ALW:AUTOBKUP:STAT;
```

3. EXPLANATION OF MESSAGE

No Variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:AUTOBKUP output message.

5. REFERENCES

Input Message(s):

```
CLR:BKUP
INH:AUTOBKUP
OP:BKUP
SCHED:BKUP
SET:BKUP
STP:AUTOBKUP
```

Output Message(s):

```
ALW:AUTOBKUP
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance Procedures*

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ALW:AUTOCFG

Software Release: 5E15 and later
Command Group: AM
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic moving head disk (MHD) configuration feature be enabled for the entire office or for a specific MHD.

2. FORMAT

```
ALW:AUTOCFG[:MHD=a];
```

3. EXPLANATION OF MESSAGE

`a` = Number of the MHD to be enabled for auto MHD configuration. If not specified, it defaults to the entire office.

4. SYSTEM RESPONSE

`OK` = Good. Requested inhibit has been released.

5. REFERENCES

Input Message(s):

```
INH:AUTOCFG
OP:MHD-CFG
SW:MHD
```

Output Message(s):

```
REPT:MHD-CONFIG
REPT:SW-MHD
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.
235-600-30x *ECD/SG Data Base*
235-105-210 *Routine Operations and Maintenance*

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ALW:BCI

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Allows originating (ORIG) or terminating (TERM) blocked call indication (BCI) reporting when a path is not available through both the A- and B-links of a line unit concentrator. Use this message to identify the lines in an office that experience A- and B-link blockages, and to indicate the severity of this problem on a line unit basis.

WARNING: The use of system resources to report A- and B-link blockages will negatively affect call processing capacity when frequent blockages occur. It is recommended that originating and terminating blockage studies not be done at the same time, and that the selected value for maximum messages (MAX) be kept small to avoid excessive message processing.

2. FORMAT

```
ALW:BCI,{ORIG|TERM},SM=a[&&b][,MAX=c];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number, or the lower limit in a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit SM number in a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Maximum number of blocked-call messages to be reported by an included SM before reporting is automatically halted for that SM.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was received and the REPT:BCI output message follows as blockages occur.

5. REFERENCES

Input Message(s):

```
OP:BCI
STP:BCI
```

Output Message(s):

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```
OP:BCI
REPT:BCI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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ALW:BICCCQ-A

Software Release: 5E15 only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Allows automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query. This interoffice BICC CIC query (BQ) will correct the inconsistencies of near-end and far-end call processing and maintenance states of individual CICs. This input message will not affect any BICC CIC query request that is currently in progress.

However, the automatic BICC CIC query will not be allowed if the CIC query start time has not been set.

2. FORMAT

```
ALW:BICCCQ;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = The request has been accepted.

`NG` = No good. May also include:
- `BQ START TIME NOT SET` = Use recent change and verify (RC/V) view 8.15 to select a BICC CQ (CIC query) START TIME, then re-enter this input message.

5. REFERENCES

RC/V View(s):
8.15 CCS OFFICE PARAMETERS

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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ALW:BICCCQ-B

Software Release: 5E16(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Allows automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query. This interoffice BICC CIC query (BQ) will correct the inconsistencies of near-end and far-end call processing and maintenance states of individual CICs. This input message will not affect any BICC CIC query request that is currently in progress.

However, the automatic BICC CIC query will not be allowed if the CIC query start time has not been set.

2. FORMAT

```
ALW:BICCCQ;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = The request has been accepted.

`NG` = No good. May also include:
- `BQ START TIME NOT SET` = Use recent change and verify (RC/V) view 8.15 to select a BICC CQ (CIC query) START TIME, then re-enter this input message.

5. REFERENCES

RC/V View(s):
8.15 CCS OFFICE PARAMETERS

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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ALW:BREVC

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the effect of the INH:BREVC input message be canceled, and allows automatic brevity control to be reapplied.

Brevity control (BREVC) restricts and prints application terminal (TTY) output messages by message class and priority to reduce the quantity of messages printed at the receive-only printer (ROP). Brevity control does not affect manual or alarmed messages. The brevity status for each MSGCLS can be printed out using the OP:BREVC input message. The status for each system can be printed using the OP:SYSSTAT input message.

2. FORMAT

```
ALW:BREVC,{MSGCLS=a|CMP=b|AM|SM=c[&&d][,LSM][,HSM][,RSM][,ORM][,TRM]};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = Allow all message classes.

`a` = Message class mnemonic. The MSGCLS for a particular message can be found on the corresponding output message manual page. The valid MSGCLS codes can be listed using the OP:LPS input message.

`b` = CMP number.

`c` = SM number or lower limit of a range of SM numbers.

`d` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. An illegal SM number or range was specified or, an illegal CMP number was specified.

`OK` = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

`INH:BREVC`

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```
OP:BREVC
OP:LPS
OP:SYSSTAT
```

Output Message(s):

```
OP:BREVC
OP:LPS
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*

MCC Display Page(s):

110 (SYSTEM INHIBITS)
1800 (SM INH & RCVRY CNTRL)
1850/1851 (CMP INH & RCVRY CNTRL)

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ALW:CALLMON

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the call monitor be allowed to start the cycle of making test calls and performing call completion analysis.

2. FORMAT

```
ALW:CALLMON;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

```
CLR:CALLMON
INH:CALLMON
OP:CALLMON
RTR:CALLMON
SET:CALLMON
```

Output Message(s):

```
OP:CALLMON
REPT:CALLMON-CMR
REPT:CALLMON-VTC
```

Output Appendix(es):

```
APP:CALLMON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

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116 (MISCELLANEOUS)

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ALW:CAMAONI

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that centralized automatic message accounting (CAMA) operator number identification (ONI) processing be allowed.

2. FORMAT

```
ALW:CAMAONI;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows and minor alarm stops.

5. REFERENCES

Input Message(s):

```
INH:CAMAONI
```

Output Message(s):

```
ALW:CAMAONI
INH:CAMAONI
```

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ALW:CCS-PSLT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the allow for the periodic signaling link test (PSLT).

2. FORMAT

```
ALW:CCS,PSLT,SM=a,[SET=b[MEMBER=c]];
```

3. EXPLANATION OF MESSAGE

`a` = CCS global switching module (GSM) number.

`b` = Link set number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Link set member. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:CCS,PSLT output message. This message indicates the success or failure of the allow request.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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ALW:CCSCQ

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Allows automatic periodic execution of the common channel signaling (CCS) office-wide circuit query. This interoffice circuit query will correct the inconsistencies of near-end and far-end call processing and maintenance states of individual trunk circuits. This command will not affect any circuit query request that is currently in progress.

However, the automatic circuit query will not be allowed if the circuit query start time has not been set.

2. FORMAT

```
ALW:CCSCQ;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Request accepted.

`NG` = No good. May also include are:
- `CQ START TIME NOT SET` = Use RC/V 8.15 (Office Parameter View) to select a CQ START TIME, the re enter this command again.

5. REFERENCES

Input Message(s):

```
EXC:CCSCQ
INH:CCSCQ
OP:CCSCQ
STP:CCSCQ
OP:JOBSTATUS
```

Output Message(s):

```
EXC:CCSCQ
OP:CCSCQ
STP:CCSCQ
OP:JOBSTATUS
```

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*

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235-200-116 *Signaling Gateway Common Channel Signaling*

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ALW:CLNORM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the communication link normalization (CLNORM) process be allowed. When CLNORM is allowed, automatic communication link, foundation peripheral controller (FPC), and communication module processor (CMP) reconfiguration actions will be performed by CLNORM.

2. FORMAT

```
ALW:CLNORM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. The ALW:CLNORM output message follows.

5. REFERENCES

Input Message(s):

```
INH:CLNORM
SW:CMP
SW:FPC
```

Output Message(s):

```
ALW:CLNORM
INH:CLNORM
```

Other Manual(s):
235-105-250 *System Recovery Procedures*

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ALW:CONFLOG

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that logging of all errors for a specified administrative module (AM) unit and any units beneath it that are reported to CONFIG be allowed. Error logging continues until the INH:CONFLOG input message is executed.

2. FORMAT

```
ALW:CONFLOG:a=b;
```

3. EXPLANATION OF MESSAGE

`a` = Unit name, as specified in the unit control block (UCB). Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number, as specified in the UCB. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`OK` = Good. Request completed.

`PF` = Printout follows. Followed by the ALW:CONFLOG output message.

`RL` = Retry later. Equipment configuration database (ECD) access failure.

5. REFERENCES

Input Message(s):

`INH:CONFLOG`

Output Message(s):

`ALW:CONFLOG`

Input Appendix(es):

`APP:MEM-NUM-UNIT`

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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ALW:CORC

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that customer-originated recent changes (CORCs) be allowed into the system if they were previously inhibited. The CORC box on the system inhibits page is lit when either CORCs or automatic customer station rearrangement (ACSR) is inhibited. Use the OP:STAT message to obtain the status of CORCs/ACSR. This message will not allow ACSR into the system. To allow ACSR, refer to the ALW:ACSR message.

2. FORMAT

```
ALW:CORC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:CORC output message.

5. REFERENCES

Input Message(s):

```
ALW:ACSR
ALW:RC
INH:CORC
OP:STAT
```

Output Message(s):

```
ALW:CORC
```

MCC Display Page(s):

110 (SYSTEM INHIBITS)

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ALW:CORCLOG-SM

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

To enable the logging of customer-originated recent changes for one or more switching modules (SMs).

2. FORMAT

```
ALW:CORCLOG,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number or range lower limit if a of SM numbers.

`b` = Upper limit if a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The input message is not valid.

`OK` = Good. The request is accepted.

5. REFERENCES

Input Message(s):

`ALW:RCLOG`

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ALW:CPUQADM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Permits the redistribution of call pick up (CPU) queues from one switching module (SM) to another SM based on the resources available per SM.

2. FORMAT

```
ALW:CPUQADM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. May also include:

- `CPU QUEUE ADMINISTRATION SUCCESSFULLY COMPLETED` = All processing in determining CPU queue redistribution has been completed along with redistributing the queues to another SM if needed.
- `REDISTRIBUTION OF CPU QUEUES NOT NECESSARY AT THIS TIME` = The read of certain data has indicated that there is no reason to redistribute the CPU queues.
- `UNABLE TO REDISTRIBUTE CPU QUEUES AT THIS TIME` = The read or update of certain static relations have failed due to data base inconsistency or inability to perform cross processor reads or updates. A check to see if any SM is not linked to the administration module (AM) will determine if the redistribution of CPU queues should be tried again at a time when all SMs are linked.

5. REFERENCES

None.

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ALW:DCGRPT

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the reporting of information related to calls pegging the default cell group (DCG) be allowed. The default cell group is the zero cell group. Cell groups are used for division of revenue traffic separation. Calls pegging the zero cell group are due to division of revenue translation errors. Allowing this report under those conditions will provide reports of originating and terminating information for the calls pegging the zero cell group. The report will be terminated automatically after printing 32 reports.

WARNING: This message should not be used during periods of heavy receive-only printer (ROP) usage. The output from this message, REPT DCGRPT, can be throttled during periods of heavy ROP output. The impact of throttling is that anywhere from one to all of the reports, including the "Auto Termination" message, may not be printed.

2. FORMAT

```
ALW:DCGRPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ALREADY ALLOWED` = The request has been denied because the report has already been allowed.
- `NOT ALLOWED - DIV OF REV OPTION OFF` = The request has been denied because division of revenue option must be on.

`OK` = Good. The request has been accepted. All subsequent occurrences of calls pegging the default cell group will print an information report. Refer to the REPT:DCGRPT output message.

5. REFERENCES

Input Message(s):

`STP:DCGRPT`

Output Message(s):

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```
REPT:DCGRPT
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
TG-5 (235-080-100) *Translation Guide*

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ALW:DEBUG

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that debugging messages be allowed to be printed for a given feature. Allowing debugging messages on a switching module (SM) causes additional ASSERT, PTRACE, and debugging output messages to be printed during error handling.

NOTE: The PTRACE message class must be allowed in order to print PTRACE messages. Refer to the CHG:LPS-MSGCLS input message.

WARNING: Before using this input message, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual. The user is responsible for any effects on system operation that result from the use of this input message.

Using the METSUCCESS option will result in the output message REPT:METALLIC being printed for every successful metallic path setup completion. This could result in a large number of output messages being sent to the ROP printer if automated metallic testing is being done with this option allowed.

Do not leave the debugger allowed for an indefinite period of time.

Format 1 is for ALE, CCS7MTCE, DIGITAL, METALLIC, METPTRACE, METALLMSG, METRESBLK, METSWBLK, METHWFAIL, METSUCCESS, and MLT SM only cases.

Format 2 is for CCS7MTCE and MLT AM only cases.

Format 3 is for MLT AM and SM cases.

2. FORMAT

```
[1]    ALW:DEBUG,a,SM[=b[&&c]];

[2]    ALW:DEBUG,a,AM;

[3]    ALW:DEBUG,a;
```

3. EXPLANATION OF MESSAGE

`a` = Feature with additional debugging messages. Valid value(s):

- `ALE` = Automatic line evaluation.
- `CCS7MTCE` = Common channel signal maintenance activity.
- `DIGITAL` = Digital testing of lines (TST:DSL) and trunks (TST:TRK).
- `METALLIC` = Metallic path setup ASSERT and PTRACE messages with low-level

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unformatted information, not intended for general customer use.

METALLMSG = Metallic path setup blockage and failure (REPT:METALLIC).

NOTE: Using METALLMSG will also allow METRESBLK, METSWBLK, and METHWFAIL.

METHWFAIL = Metallic path setup hardware failure (REPT:METALLIC).

METPTRACE = Metallic related PTRACE messages.

METRESBLK = Metallic path setup resource blockage (REPT:METALLIC).

METSUCCESS = Metallic path setup completed successfully (REPT:METALLIC).

METSWBLK = Metallic path setup software blockage (REPT:METALLIC).

MLT = Mechanized loop test.

TSTPATH = Test path application (TST:PATH).

b = SM number or the lower limit of a range of SM numbers (defaults to all equipped SMs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.

PF = Printout follows. Followed by the ALW:DEBUG output message.

5. REFERENCES

Input Message(s):

```
CHG:LPS-MSGCLS
INH:DEBUG
OP:DEBUG
TST:DSL
TST:TRK
```

Output Message(s):

```
ALW:DEBUG
INH:DEBUG
OP:DEBUG
REPT:METALLIC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

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235-105-220 *Corrective Maintenance*

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ALW:DLNHB

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the common network interface (CNI) automatic direct link node (DLN) heartbeat test be allowed. The ALW:DLNHB and INH:DLNHB input messages form the basic on/off mechanism for DLN heartbeat. When the ALW:DLNHB is issued, the "DLN heartbeat test" checks each switching module (SM) for its ability to communicate with the DLN. It cycles through all the SMs checking one every 30 seconds. This input message will allow the automatic testing to continue until and INH:DLNHB is issued.

2. FORMAT

```
ALW:DLNHB;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `DLNs ARE NOT EQUIPPED` = DLN heartbeat is neither necessary nor enabled when the CNI ring is not equipped with DLNs.

`OK` = Good. Automatic testing allowed.

5. REFERENCES

Input Message(s):

```
INH:DLNHB
```

Output Message(s):

```
REPT:DLNHB
```

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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ALW:DMQ

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Allows previously inhibited or suspended sources to send automatic maintenance requests to the administrative module (AM) maintenance input request administrator (MIRA).

Format 1 reverses the effect of an inhibit source message (INH:DMQ) for a specified source of automatic maintenance requests.

Format 2 is valid only while execution of deferred maintenance requests is suspended during system recovery. It allows execution of deferred maintenance requests during system recovery.

2. FORMAT

```
[1]    ALW:DMQ:SRC=a;
```

```
[2]    ALW:DMQ:RUN;
```

3. EXPLANATION OF MESSAGE

`a` = Three-character source name. Valid value(s):

- `ADP` = Automatic diagnostic process.
- `ALL` = Allows all automatic maintenance requests by clearing the inhibited sources.
- `ARR` = Automatic ring recovery.
- `REX` = Routine exerciser.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:DMQ output message.

Note: Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual for additional responses.

5. REFERENCES

Input Message(s):

`INH:DMQ`
`OP:DMQ`

Output Message(s):

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```
ALW:DMQ
```

Input Appendix(es):

```
APP:AUD
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ALW:DOC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that dynamic overload control (DOC) treatment be allowed upon the reception of DOC signals for a specified trunk group.

2. FORMAT

```
ALW:DOC,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the ALW:DOC output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

`INH:DOC`
`OP:DOC`

Output Message(s):

`ALW:DOC`

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Signaling*

MCC Display Page(s):

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ALW:DRHR

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Allows the division of revenue hourly (DRHR) report to be output to the traffic channel. The report will continue to be made until turned off by the INH:DRHR message.

2. FORMAT

```
ALW:DRHR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `PRINT ALLOCATION EXCEEDED` = The message allocation for this office has reached its limit. The requested report has not been allowed.

`OK` = Good. The requested report has been allowed. May also include:
- `DIV OF REV OPTION OFF` = The report has been allowed, but may not be seen because the option for division of revenue reporting or for an hourly report is turned off.
- `LPS SET TO DISCARD` = The report has been allowed, but may not be seen because the log/print status is set to discard this class of message.

5. REFERENCES

Input Message(s):

```
CHG:LPS-MSGCLS
INH:DRHR
OP:MEASTAT
```

Output Message(s):

```
OP:MEASTAT-PRNT
```

Other Manual(s):
235-070-100 *Administrative Guidelines*

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ALW:DSILC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be allowed.

2. FORMAT

```
ALW:DSILC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the ALW:DSILC output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
INH:DSILC
OP:DOC
OP:SILC
```

Output Message(s):

```
ALW:DSILC
```

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling

MCC Display Page(s):

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130 (NM EXCEPTION)

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ALW:EAIINT

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Allows the logging and processing of emergency action interface (EAI) error interrupts from the 3B21D computer control unit (CU) specified in the identification field. If a CU is not specified with the input request, EAI error interrupts for both CUs are allowed.

NOTE: The 3B20D computer CUs do not have EAI error interrupts.

2. FORMAT

```
[1]    ALW:EAIINT;

[2]    ALW:EAIINT:CU a;
```

3. EXPLANATION OF MESSAGE

`a` = CU number 0 or 1.

4. SYSTEM RESPONSE

`PF` = Printout Follows. Followed by the ALW:EAIINT output message.

`?I` = Invalid response. May also include:
- `INPUT ERROR` = Identification field error.

5. REFERENCES

Input Message(s):

```
ALW:ERRCHK
INH:EAIINT
OP:ERRCHK
```

Output Message(s):

```
ALW:EAIINT
INH:EAIINT
OP:ERRCHK
```

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ALW:ECDAUD

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the execution of the on-switch ECD audit be allowed.

2. FORMAT

```
ALW:ECDAUD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:ECDAUD output message.

5. REFERENCES

Input Message(s):

```
STOP:ECDAUD
INH:ECDAUD
EXC:ECDAUD
SCHED:ECDAUD
OP:ECDAUD
```

Output Message(s):

```
ALW:ECDAUD
```

Other Manual(s):
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance Manual*

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ALW:EON5REPT

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

This command is associated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

```
ALW:EON5REPT[,THR=a];
```

3. EXPLANATION OF MESSAGE

`a` = A threshold range from 1 to 100.

4. SYSTEM RESPONSE

`NO` = No. Feature not available.

`RL` = Retry later.

`OK` = Good. Request was accepted.

5. REFERENCES

Input Message(s):

```
INH:EON5REPT
```

Output Message(s):

```
REPT:EON5-DRA
REPT:EON5-TE
```

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ALW:ERRCHK

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Allows the logging and processing of all administrative module (AM) computer error sources. This message causes the inhibit administrator to set the inhibit status to allowed for all AM computer inhibit sources. These include HDWCHK, SFTCHK, ERRINT, and the ERRSRC representing the control unit (CU) complexes.

2. FORMAT

```
ALW:ERRCHK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:ERRCHK output message.

5. REFERENCES

Input Message(s):

```
ALW:ERRINT
ALW:ERRSRC
ALW:HDWCHK
ALW:SFTCHK
INH:ERRCHK
OP:ERRCHK
```

Output Message(s):

```
ALW:ERRCHK
INH:ERRCHK
OP:ERRCHK
```

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ALW:ERRINT

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the logging and processing of administrative module (AM) error interrupts attached to the unit specified in the identification field be allowed. If a unit name is not specified with the input request, then error interrupts for all AM units are allowed.

2. FORMAT

```
ALW:ERRINT[:(a b[,c d])];
```

3. EXPLANATION OF MESSAGE

`a` = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for computer unit names.

NOTE: Allowing a control unit (CU) in an active/standby duplex configuration allows both CUs since they must be kept in identical states.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Subunit name, if `a = CU`. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for subunit names.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Indicates the unit name and number specified was found in the database but is unequipped.

`PF` = Printout follows. Followed by the ALW:ERRINT output message.

`?I` = Identification field error. Possibly indicates the unit name and number specified cannot be found in the database.

5. REFERENCES

Input Message(s):

```
ALW:ERRCHK
INH:ERRINT
OP:ERRCHK
```

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Output Message(s):

```
ALW:ERRINT
INH:ERRINT
OP:ERRCHK
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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ALW:ERRSRC

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities be allowed.

This message causes the inhibit administrator to set the inhibit status to allowed for the CU pseudo-nodes.

2. FORMAT

```
ALW:ERRSRC [AM];
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:ERRSRC output message.

5. REFERENCES

Input Message(s):

```
ALW:ERRCHK
INH:ERRSRC
OP:ERRCHK
```

Output Message(s):

```
ALW:ERRSRC
INH:ERRSRC
OP:ERRCHK
```

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ALW:ESP

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that essential service protection (ESP) be enabled. This allows designated lines to receive preferential origination treatment.

2. FORMAT

```
ALW:ESP!
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The ALW:ESP output message follows. A response will also be reflected on page 109 of the Master Control Center (MCC).

5. REFERENCES

Input Message(s):

```
INH:ESP
```

Output Message(s):

```
ALW:ESP
INH:ESP
```

Other Manual(s):
235-105-110 *Maintenance Requirements and Tools*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

109 (OVERLOAD)

RC/V View(s):

8.1 (OFFICE PARAMETERS)

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ALW:ESQREPT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

This message is assoicated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

```
ALW:ESQREPT[,THR=a]
```

3. EXPLANATION OF MESSAGE

`a` = A threshold range (1 to 100).

4. SYSTEM RESPONSE

`NO` = No. Feature not available.

`RL` = Retry later.

`OK` = Good. Request was accepted.

5. REFERENCES

Input Message(s):

```
INH:ESQREPT
```

Output Message(s):

```
REPT:EON5-DRA
REPT:EON5-TE
```

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ALW:EXTPM

Software Release: 5E17(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Allows the initiation of external performance monitoring (PM) sessions over one or more packet switch unit (PSU) asynchronous transfer mode (ATM) links (PSALNK).

A PSALNK provides the ability to interconnect the local PSU with multiple other PSUs in the ATM network, as designated by their community address and subnetwork identifiers. Each of these PSU-to-PSU connections can be monitored internally for performance-impacting metrics in accordance to the GR-1248 ATM standard and included in the relevant switch measurement reports for output. Similarly, the far endpoint of each PSU-to-PSU connection can request that the identical virtual circuit be monitored.

The purpose of this input message is to allow these external requests for PM activity by far endpoints to be fulfilled by the host switch. Each PM session (either internally or externally initiated) consumes a set amount of finite resources on each end of the target virtual circuit. Once these resources have been exhausted, additional PM requests will be denied. The corresponding INH:EXTPM input message provides a means of disabling external PM activity.

If the PSALNK option is included, only the specified PSALNK will be affected by the input message. Otherwise, all PSALNKs in the office will be affected by the input message.

PM is only supported over a virtual circuit terminated locally by a PSALNK hosted on a Protocol Handler for ATM Version 2 (PHA2).

2. FORMAT

```
ALW:EXTPM[,PSALNK=a-b-c];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number of the target PSALNK.

`b` = PSU number of the target PSALNK.

`c` = Link number of the target PSALNK.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more ALW:EXTPM output messages.

`NG` = No good. May also include:

- `NO PHA2 PSALNK EQUIPPED` = The request has been denied. The message is valid but no PSALNKs within the scope of the input message were detected in the current equipage.
- `PSALNK UNEQUIPPED` = The request has been denied. The message is valid but the specified PSALNK was not detected in the current equipage.
- `MUST BE A PHA2 PSALNK` = The request has been denied. The message is valid but the

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specified PSALNK is not hosted by a PHA2.
- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- `INTERNAL CORRUPTION` = The request has been denied. The message is valid but an internal data corruption error has prevented any action from being taken.

`RL` = Retry later. May also include:
- `PREVIOUS REQUEST IN PROGRESS` = The request has been denied. The message is valid but the previous request must complete before a new request can be made.

5. REFERENCES

Input Message(s):

```
ALW:PM
INH:EXTPM
INH:PM
OP:LIST-FLOWACT
```

Output Message(s):

```
ALW:EXTPM
ALW:PM
INH:EXTPM
INH:PM
OP:LIST-FLOWACT
```

Input Appendix(es):

```
APP:RANGES
```

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ALW:FAC-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number. This message does not override alert inhibits specified using recent change/verify (RC/V) views 8.1, 20.23, 20.25, or 22.15. To determine a unit's alert control status refer to the OP:FAC input message.

2. FORMAT

```
ALW:FAC,a;
```

3. EXPLANATION OF MESSAGE

a = Valid value(s):

DFAC=n-b-c-d[,e]	IDCU=n-f[,e]
DFI=n-b-c[,e]	IFAC=n-f-g[,e]
DLTU=n-b[,e]	IDCURT=n-f-h[,e]
DNUS=n-i[,e]	SM=n
DNUSRT=n-i-h[,e]	EC1STE=n-i-j-k[,e]
DS1SFAC=n-i-j-k-l-m-o[,e]	VT1FAC=n-i-j-k-l-m-o[,e]

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Type of alerts to allow. Valid value(s):
- ALL = Both 15-minute and daily alerts (default).
- DAY = Daily alerts.
- INT = 15-minute interval alerts.

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`i` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and the ALW:FAC output message follows.
`NG` = No good. The input contained an illegal specification.
`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
INH:FAC
INIT:FAC
OP:FAC
```

Output Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance Procedures*

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RC/V View(s):

8.1 (OFFICE PARAMETERS (MISCELLANEOUS))
20.23 (IDCU FACILITY EQUIPMENT)
20.25 (DNU-S PERFORMANCE MONITORING THRESHOLD GROUP)
22.15 (PERFORMANCE MONITORING)

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ALW:FAC-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number. This message does not override alert inhibits specified using recent change/verify (RC/V) views 8.1, 20.23, 20.25, or 22.15. To determine a unit's alert control status refer to the OP:FAC input message.

2. FORMAT

```
ALW:FAC,a;
```

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):

```
DFAC=n-b-c-d[,e]
DFI=n-b-c[,e]
DLTU=n-b[,e]
DNUS=n-i[,e]
DNUSRT=n-i-h[,e]
DS1SFAC=n-i-j-k-l-m-o[,e]
EC1STE=n-i-j-k[,e]
IDCU=n-f[,e]
IDCURT=n-f-h[,e]
IFAC=n-f-g[,e]
SM=n
VT1FAC=n-i-j-k-l-m-o[,e]
OIU=n-p[,e]
OC3=n-p-q-r[,e]
STS1=n-p-q-r-s[,e]
VT15=n-p-q-r-s-t-u[,e]
DS1=n-p-q-r-s-t-u[,e]
```

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Type of alerts to allow. Valid value(s):

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ALL	= Both 15-minute and daily alerts (default).
DAY	= Daily alerts.
INT	= 15-minute interval alerts.

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Protection Group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Optical Carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Synchronous Transport Signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t =VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u =VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the ALW:FAC output message.

NG = No good. The input contained an illegal specification.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
INH:FAC
INIT:FAC
OP:FAC
```

Output Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
20.23	IDCU FACILITY EQUIPMENT
20.25	DNU-S PERFORMANCE MONITORING THRESHOLD GROUP
22.15	PERFORMANCE MONITORING

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ALW:FAC-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), digital networking unit - synchronous optical network (SONET) (DNU-S) number or session initiation protocol (SIP) protocol handler (PH) on a packet switch unit (PSU). This message does not override alert inhibits specified using RC/V Views 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)], 20.23 (IDCU FACILITY EQUIPMENT), 20.25 (DNU-S PERFORMANCE MONITORING THRESHOLD GROUP), 20.32 (PERFORMANCE MONITORING THRESHOLD GROUP), or 22.15 (PERFORMANCE MONITORING). To determine a unit's alert control status refer to the OP:FAC input message.

2. FORMAT

```
ALW:FAC,a;
```

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):

```
DFAC=n-b-c-d[,e]
DFI=n-b-c[,e]
DLTU=n-b[,e]
DNUS=n-i[,e]
DNUSRT=n-i-h[,e]
DS1=n-p-q-r-s-t-u[,e]
DS1SFAC=n-i-j-k-l-m-o[,e]
EC1STE=n-i-j-k[,e]
IDCU=n-f[,e]
IDCURT=n-f-h[,e]
IFAC=n-f-g[,e]
OC3=n-p-q-r[,e]
OC3C=n-p-q-v[,e]
OIU=n-p[,e]
PPPLK=n-p-q-v-w[,e]
PSU=n-x[,e]
PSUPH=n-x-y-z[,e]
SM=n
STS1=n-p-q-r-s[,e]
STS3C=n-p-q-v-w[,e]
VT15=n-p-q-r-s-t-u[,e]
VT1FAC=n-i-j-k-l-m-o[,e]
```

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Type of alerts to allow. Valid value(s):

`ALL`	= Both 15-minute and daily alerts (default).
`DAY`	= Daily alerts.
`INT`	= 15-minute interval alerts.

`f` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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t =VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u =VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = PSU shelf (PSUSHLF) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = PSU relative protocol handler (PSURELPH). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the ALW:FAC output message.

NG = No good. The input contained an illegal specification.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
INH:FAC
INIT:FAC
OP:FAC
```

Output Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
20.12	STS-1 FACILITY PROVISIONING (DNU-S)
20.23	IDCU FACILITY EQUIPMENT (IFAC)
20.24	VT1.5 FACILITY PROVISIONING (DNU-S)
20.25	DNU-S PERFORMANCE MONITORING THRESHOLD GROUP (SM2000)
20.29	OIU SONET TERMINATION EQUIPMENT (SM2000)
20.30	HIGH-LEVEL VIRTUAL CONTAINER (OIU)
20.31	LOW-LEVEL VIRTUAL CONTAINER (OIU)
20.32	PERFORMANCE MONITORING THRESHOLD GROUP (OIU, SIP PSUPH)
22.15	PERFORMANCE MONITORING (DLTU)
33.16	SIP-T PROCESSOR GROUP

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ALW:FSYS-ACCESS

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the access permissions of a specific file be changed. Permissions allow the owner, group, and others to read, write, and execute a file.

WARNING: Incorrect permission values can prevent the system from accessing needed files or executing input messages and processes.

2. FORMAT

```
ALW:FILESYS,ACCESS=a,FN="b";
```

3. EXPLANATION OF MESSAGE

`a` = A 3-digit number giving access permissions for owner, group and others, in that order. Valid value(s):

`1`	= Execute (search in directory) only.
`2`	= Write only.
`3`	= Write and execute (search).
`4`	= Read only.
`5`	= Read and execute (search).
`6`	= Read and write.
`7`	= Read, write, and execute (search).

`b` = Full pathname of the file or directory.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:FSYS-ACCESS output message.

5. REFERENCES

Input Message(s):

```
ALW:FSYS-OWNER
OP:ST-LISTDIR
```

Output Message(s):

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```
ALW:FSYS-ACCESS
OP:ST-LISTDIR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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ALW:FSYS-MOUNT

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Allows a removable file system to be mounted.

2. FORMAT

```
ALW:FILESYS,MOUNT,FN="a",BSDIR="b"[,RO][,AUD];
```

3. EXPLANATION OF MESSAGE

`AUD` = File manager is to audit the file system prior to mounting it.

`RO` = File system is to be mounted read only.

`a` = Special device filename of the file system to be mounted. Refer to the ECD/SG manual.

`b` = The base directory of the mounted file system, from which all file names in that file system must descend.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:FSYS-MOUNT output message and a PRM output message.

5. REFERENCES

Input Message(s):

```
INH:FSYS-UMOUNT
OP:ST-FILESYS
```

Output Message(s):

```
ALW:FSYS-MOUNT
OP:ST-FILESYS
```

Other Manual(s):

Where 'x' is the release-specific version of the specified document.
235-600-30x *ECD/SG*
235-600-601 *Processor Recovery Messages*
235-105-220 *Corrective Maintenance*

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MCC Display Page(s):

CRAFT FM 01)

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ALW:FSYS-OWNER

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the owner and group of a specific file be changed.

WARNING: Incorrect owner specifications can prevent the system from accessing needed files.

2. FORMAT

```
ALW:FILESYS,OWNER="a", FN="b";
```

3. EXPLANATION OF MESSAGE

`a` = User ID of the new owner of the file.

`b` = Pathname of the file.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:FSYS-OWNER output message.

5. REFERENCES

Input Message(s):

`ALW:FSYS-ACCESS`

Output Message(s):

`ALW:FSYS-OWNER`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

CRAFT FM 01)

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ALW:GKCCR

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that automatic periodic execution of the generated key collection and compression routine (GKCCR) be allowed in specified processors. Either specific processors can be specified or no processors can be specified. If no processors are specified, then the GKCCR will be allowed in every processor.

2. FORMAT

```
ALW:GKCCR[,SM=a[&&b]][,CMP=c][,AM];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

`c` = Communications module processor (CMP) number.

4. SYSTEM RESPONSE

`NG` = No good. The input request is invalid. May also include:
- `NO VALID PROCESSOR SPECIFIED` = Specific processor(s) were specified in the input request line, but no requested processor was operational. If specific processors are to be requested, at least one requested processor must be operational.

`OK` = Good. Request was accepted.

5. REFERENCES

Input Message(s):

```
EXC:GKCCR
INH:GKCCR
ALW:GKCCR
```

Output Message(s):

```
EXC:GKCCR
REPT:GKCCR
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-210 *Routine Operations and Maintenance*

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ALW:HBPRT

Software Release: 5E20(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the executive cellular processor (ECP) heartbeat printing functionality be allowed.

2. FORMAT

```
ALW:HBPRT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Command was accepted.

5. REFERENCES

Input Message(s):

```
INH:HBPRT
OP:HBPRT
```

Output Message(s):

```
REPT:HBPRT
OP:HBPRT
```

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ALW:HDW-AIU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on an access interface unit (AIU).

2. FORMAT

```
ALW:HDWCHK,AIU=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ALW:HDW-AIU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-AIU`

Output Message(s):

`ALW:HDW-AIU`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1320,y,x (AIU SUMMARY)

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ALW:HDW-CDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows maintenance interrupts to occur on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit. The system enables the interrupts if internal checks allow the transition.

2. FORMAT

```
ALW:HDWCHK,CDFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number.

`c` = CDFI number.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. The ALW:HDW-CDFI output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-CDFI`

Output Message(s):

`ALW:HDW-CDFI`

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ALW:HDW-CDI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified control data interface (CDI).

2. FORMAT

```
ALW:HDWCHK,CDI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The ALW:HDW-CDI output message follows.

5. REFERENCES

Output Message(s):

`ALW:HDW-CDI`

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-CLNK

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Allows level 2 and level 3 hardware checks errors to be performed on one or all communication links (CLNKs). (Refer to the Corrective Maintenance Manual for an explanation of level 2 and level 3 errors.)

2. FORMAT

```
ALW:HDWCHK,CLNK{=a-b-c-d|,ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Allow errors on all communication links.

`a` = Switching module (SM) number.

`b` = Office network and timing complex (ONTC) side.

`c` = Module message processor (MMP) type. Valid value(s):
- `0` = Alpha.
- `1` = Beta.

`d` = Message switch (MSGS) side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `- ALL NOT VALID WITH A SINGLE UNIT` = A single CLNK and ALL may not be specified together.
- `- UNIT UNEQUIPPED` = The specified single CLNK is unequipped.

`PF` = Printout follows. A printout will follow when the requested action is completed.

5. REFERENCES

Input Message(s):

```
INH:HDW-CLNK
OP:HDWCHK
```

Output Message(s):

```
ALW:HDW-CLNK
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

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ALW:HDW-CM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on all communication module (CM) units. This includes the message switch control unit (MSCU) (for communication module model 2; hardware only), foundation peripheral controller (FPC), pump peripheral controller (PPC), module message processor (MMP), office network and timing complex (ONTC), and communication links (CLNKs).

2. FORMAT

```
ALW:HDWCHK,CM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress. May also include:
`- PENDING EXIT FROM MANUAL CM ISOLATION` = The request cannot be executed now because the communication module (CM) is isolated from the administrative module (AM) by a manual request. The request will be acted upon once AM communication with the CM is re-established.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. The request has been accepted and the ALW:HDW-CM output message follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full; try again later.

5. REFERENCES

Input Message(s):

```
CLR:ISOL-CM
INH:HDW-CM
OP:DMQ-CM-SM
```

Output Message(s):

```
ALW:HDW-CM
```

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```
INH:HDW-CM
OP:DMQ-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ALW:HDW-CMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified communication module processor (CMP).

2. FORMAT

```
ALW:HDWCHK,{CMP=a-b|CMP=b,{PRIM|MATE}};
```

3. EXPLANATION OF MESSAGE

`MATE` = Mate, or non-active, CMP member.

`PRIM` = Primary, or active, CMP member.

`a` = Message switch side number.

`b` = CMP number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. The ALW:HDW-CMP output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-CMP
OP:HDWCHK
```

Output Message(s):

```
ALW:HDW-CMP
INH:HDW-CMP
OP:HDWCHK
```

Input Appendix(es):

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```
APP:CM-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241/51 (MSGS COMMUNITIES 0-1, 8-9)

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ALW:HDW-DCLU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified *SLC®* 96 digital carrier line unit (DCLU).

2. FORMAT

```
ALW:HDWCHK,DCLU=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = DCLU number.

`c` = Service group number.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
ALW:HDW-DCLU
```

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ALW:HDW-DCTUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified directly connected test unit common board (DCTUCOM).

2. FORMAT

```
ALW:HDWCHK:DCTUCOM=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Directly connected test unit number.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

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ALW:HDW-DFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified digital facility interface (DFI).

2. FORMAT

```
ALW:HDWCHK,DFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-DFIH

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks to occur on a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH). The system enables the hardware checks if internal status allows the transition.

2. FORMAT

```
ALW:HDWCHK,DFIH=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
CONFLICT WITH UNIT STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. The ALW:HDW-DFIH output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-DFIH
```

Output Message(s):

```
ALW:HDW-DFIH
```

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Input Appendix(es):

```
APP:RANGES
```

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ALW:HDW-DNUSCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

2. FORMAT

```
ALW:HDWCHK,DNUSCC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The ALW:HDW-DNUSCC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-DNUSCC`

Output Message(s):

`ALW:HDW-DNUSCC`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

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1510 (DNUS STATUS)

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ALW:HDW-DNUSCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

2. FORMAT

```
ALW:HDWCHK,DNUSCD=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The ALW:HDW-DNUSCD output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-DNUSCD`

Output Message(s):

`ALW:HDW-DNUSCD`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1510 (DNUS STATUS)

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ALW:HDW-FPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified foundation peripheral controller (FPC).

2. FORMAT

```
ALW:HDWCHK,FPC=a;
```

3. EXPLANATION OF MESSAGE

`a` = FPC number.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows. Followed by the ALW:HDW-FPC output message.

5. REFERENCES

Input Message(s):

```
INH:HDW-FPC
OP:CFGSTAT
```

Output Message(s):

```
ALW:HDW-FPC
OP:CFGSTAT
```

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ALW:HDW-GDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows maintenance hardware checks in a global digital services function (GDSF) circuit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

```
ALW:HDWCHK,GDSF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Message syntax is valid, but the request conflicts with current equipment status. This includes a text explanation.

`PF` = Printout follows. The request has been accepted. The ALW:HDW-GDSF output message follows.

`RL` = Retry later. This includes a text explanation for why the user should retry later.

5. REFERENCES

Input Message(s):

```
INH:HDW-GDSF
```

Output Message(s):

```
ALW:HDW-GDSF
INH:HDW-GDSF
```

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ALW:HDW-GDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified global digital service unit (DSU) common (GDSUCOM) board.

2. FORMAT

```
ALW:HDWCHK,GDSUCOM=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-GDXACC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified gated diode crosspoint access (GDXACC) circuit.

2. FORMAT

```
ALW:HDWCHK,GDXACC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-GDXCON

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified gated diode crosspoint control (GDXCON).

2. FORMAT

```
ALW:HDWCHK,GDXCON=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES

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ALW:HDW-GRID

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified gated diode crosspoint grid (GRID).

2. FORMAT

```
ALW:HDWCHK,GRID=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = GRID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-GRIDBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified line unit model 2; (LU2) or line unit model 3; (LU3) grid board.

2. FORMAT

```
ALW:HDWCHK,GRIDBD=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ALW:HDW-GRIDBD output message with the completion status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
ALW:HDW-GRIDBD
INH:HDW-GRIDBD
```

Input Appendix(es):

```
APP:RANGES
```

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ALW:HDW-HDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.

2. FORMAT

```
ALW:HDWCHK,HDFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number.

`c` = HDFI number.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ALW:HDW-HDFI output message.

5. REFERENCES

Input Message(s):

```
INH:HDW-HDFI
```

Output Message(s):

```
ALW:HDW-HDFI
```

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ALW:HDW-IDCU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) service group circuit.

2. FORMAT

```
ALW:HDWCHK,IDCU=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The ALW:HDW-IDCU output message follows.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-IDCU`

Output Message(s):

`ALW:HDW-IDCU`

Input Appendix(es):

`APP:RANGES`

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Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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ALW:HDW-IDCUELI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit.

2. FORMAT

```
ALW:HDWCHK,IDCUELI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The ALW:HDW-IDCUELI output message follows.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-IDCUELI`

Output Message(s):

`ALW:HDW-IDCUELI`

Input Appendix(es):

`APP:RANGES`

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Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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ALW:HDW-IFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) facility (IFAC) circuit. This input message will only work on IFACs associated with the A and P facilities for the TR008 remote terminal (RT) and on the protection line for the TR303 RT.

2. FORMAT

```
ALW:HDWCHK,IFAC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The ALW:HDW-IFAC output message follows.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-IFAC`

Output Message(s):

`ALW:HDW-IFAC`

Input Appendix(es):

`APP:RANGES`

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Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

187x (IFAC CIRCUIT)
188xyy (IDCU REMOTE TERMINAL)

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ALW:HDW-ISLU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on an integrated services line unit (ISLU) common controller (CC) or common data (CD).

2. FORMAT

```
ALW:HDWCHK,ISLU{a}=b-c-d;
```

3. EXPLANATION OF MESSAGE

a = Circuit name. Valid value(s):
- CC = Common controller.
- CD = Common data.

b = Switching module (SM) number.

c = Integrated services line unit number.

d = Valid value(s):

If 'a' =	**'d' =**
CC	Common controller number.
CD	Common data number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. The ALW:HDW-ISLU output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-ISLU
```

Output Message(s):

```
ALW:HDW-ISLU
```

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MCC Display Page(s):

170x (ISLU Network)

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ALW:HDW-ISLUCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on an integrated services line unit common controller (ISLUCC).

2. FORMAT

```
ALW:HDWCHK,ISLUCC(a,b,c)!
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The ALW:HDW-ISLUCC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-ISLUCC`

Output Message(s):

`ALW:HDW-ISLUCC`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

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170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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ALW:HDW-ISLUCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on an integrated services line unit common data (ISLUCD).

2. FORMAT

```
ALW:HDWCHK,ISLUCD=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The ALW:HDW-ISLUCD output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ALW:HDW-ISLUCD`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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ALW:HDW-ISLUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows listing of ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).

2. FORMAT

```
ALW:HDWCHK,ISLUHLSC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = HLSC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. The ALW:HDW-ISLUHLSC output message follows.

`RL` = Retry later. The request cannot be executed due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-ISLUHLSC`

Output Message(s):

`ALW:HDW-ISLUHLSC`

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-ISLUMAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows listing of interrupts in an integrated services line unit (ISLU) metallic access network (MAN).

2. FORMAT

```
ALW:HDWCHK,ISLUMAN=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = MAN number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. The ALW:HDW-ISLUMAN output message follows.

`RL` = Retry later. The request cannot be executed due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-ISLUMAN`

Output Message(s):

`ALW:HDW-ISLUMAN`

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-ISLURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows listing of error sources in an integrated services line unit (ISLU) ringing generator (RG).

2. FORMAT

```
ALW:HDWCHK,ISLURG=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. The ALW:HDW-ISLURG output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-ISLURG`

Output Message(s):

`ALW:HDW-ISLURG`

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-ISTF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks in an integrated services test function (ISTF) unit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

```
ALW:HDWCHK,ISTF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = ISTF unit number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The request unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the ALW:HDW-ISTF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

`INH:HDW-ISTF`

Output Message(s):

`ALW:HDW-ISTF`

MCC Display Page(s):

ISTF Page)

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ALW:HDW-IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on an inter-working gateway link interface (IWGLI).

2. FORMAT

```
ALW:HDWCHK,IWGLI=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Inter-working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ALW:HDW-IWGLI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-IWGLI`

Output Message(s):

`ALW:HDW-IWGLI`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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ALW:HDW-LDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows maintenance hardware checks in a local digital service function (LDSF) circuit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

```
ALW:HDWCHK,LDSF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = LDSF number.

4. SYSTEM RESPONSE

`NG` = No good. Message syntax is valid, but the request conflicts with current equipment status. This includes a text explanation.

`PF` = Printout follows. The request has been accepted. Followed by the ALW:HDW-LDSF output message.

`RL` = Retry later. This includes a text explanation for why the user should retry later.

5. REFERENCES

Input Message(s):

```
INH:HDW-LDSF
```

Output Message(s):

```
ALW:HDW-LDSF
INH:HDW-LDSF
```

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ALW:HDW-LDSU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows maintenance hardware checks in a local digital service unit - model 2 (LDSU2) board to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

```
ALW:HDWCHK,LDSU=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Message syntax is valid, but the request conflicts with current equipment status. This includes a text explanation.

`PF` = Printout follows. The request has been accepted. The ALW:HDW-LDSU output message follows.

`RL` = Retry later. This includes a text explanation for why the user should retry later.

5. REFERENCES

Output Message(s):

`ALW:HDW-LDSU`

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-LDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified local digital service unit common (LDSUCOM) board.

2. FORMAT

```
ALW:HDWCHK,LDSUCOM=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-LUCHAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified line unit channel (LUCHAN).

2. FORMAT

```
ALW:HDWCHK,LUCHAN=a-b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-LUCOMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified line unit common control (LUCOMC).

2. FORMAT

```
ALW:HDWCHK,LUCOMC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-LUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified line unit high level service circuit (LUHLSC).

2. FORMAT

```
ALW:HDWCHK,LUHLSC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-MCTSI-A

Software Release: 5E15 - 5E16(1)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a hardware check (HDWCHK) be allowed in a module controller/time-slot interchange unit (MCTSI). The system enables the indicated HDWCHK if internal checks allow the transition.

2. FORMAT

```
ALW:HDWCHK,MCTSI=a-b,c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM)/SM-2000 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Keyword that specifies inhibit bit name. Valid value(s):

Note: If the keyword is invalid for the specified SM/SM-2000, the request will be denied with the message `STOPPED REQUEST NOT ALLOWED`.

`ALL` = All valid module controller maintenance errors.

`AFFCI` = Active flip-flop cleared interrupt. Valid for SMs with the MCTU3 (module controller/time slot interchange unit 3) and for SM-2000s.

`ARPV` = Arbitration protocol violation error. Valid for SM-2000 only.

`ASDPE` = Synchronous data link controller (SDLC) A reset. Not valid for SM-2000.

`BSDPE` = SDLC B reset. Not valid for SM-2000.

`CACHE` = Cache errors. Allowing CACHE on SM-2000s with cache allows the interrupts source while on non-SM-2000s with caches it enables the cache area (the normal mode of operation) as well, which speeds up the operation of the processor. This option is only valid for SMs with the MCTU2 (module controller/time slot interchange unit 2), the extended memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 processor pack. If this error has been inhibited, allowing it will improve processor performance.

`CADPR` = Memory address mismatch error. Valid for SM-2000 only.

`CBERR` = Correctable bit error. If this error has been inhibited, allowing it will improve processor performance. Inhibiting this has no performance impact on SM-2000 or MCTU3.

`CI0IN and CI00IN` = Control interface (CI) 0 interrupt.

`CI1IN and CI01IN` = CI 1 interrupt.

`CI2IN and CI02IN` = CI 2 interrupt. Valid for SM-2000 only.

`CI3IN and CI03IN` = CI 3 interrupt. Valid for SM-2000 only.

`CIxyIN` = CI interrupt in an electrical extended control and data unit (XCDU) or optical extended control and data unit (OXU) shelf where "x" is 0 for the local CI's and 1 - 8 for XCDU/OXU number and "y" is the CI number which is 0 - 3 for local and 0 - 2 for XCDU/OXU. Valid for SM-2000 only.

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CPINT	= Enhanced central processor intervention interrupt.
DCODE	= Decode error. Valid for SM-2000 only.
DL0PE	= Dual link interface (DLI) 0 parity error. Not valid for SM-2000.
DL1PE	= DLI 1 parity error. Not valid for SM-2000.
DLI0I	= Data link 0 interrupt. Not valid for SM-2000.
DLI1I	= Data link 1 interrupt. Not valid for SM-2000.
DLISW	= DLI switch error. Not valid for SM-2000.
IAC0	= DLI0 illegal access error. Not valid for SM-2000.
IAC1	= DLI 1 illegal access error. Not valid for SM-2000.
LPVER	= Bus lock violation. Valid for SM-2000 only.
MADPE	= Address parity error.
MAPCMSC	= Application controller miscellaneous errors (loss of clock, receive cyclic-redundancy-check error, loss of synchronization, and subunit mismatch error). Valid for SM-2000 only.
MCINT	= Resets in the mate controller.
MDLIE	= DLI interface error. Not valid for SM-2000.
MH0IN	= Message handler 0 interrupt. Valid for SM-2000 only.
MH1IN	= Message handler 1 interrupt. Valid for SM-2000 only.
MH2IN	= Message handler 2 interrupt. Valid for SM-2000 only.
MIOIO	= I/O invalid operation error.
MIOLE	= I/O timer lock error.
MIOPE	= I/O bus parity error. Not valid for SM-2000.
MIOTO	= I/O timer time out error.
MIOUE	= I/O unlock error.
MMEME	= Memory system error. Not valid for SM-2000.
MPRIN	= Maintenance interrupts in the mate MCTSI.
MRDYT	= Ready time out.
MRSPERR	= Multiple response error. Valid for MCTU2 and SM-2000 only.
MRWPE	= Read or write parity error.
MSUSM	= Subunit select mismatch. Not valid for SM-2000.
MWPER	= Write protect error.
NCBERR	= Non-correctable bit error. Valid for SM-2000 only.
OXUxIN	= OXU interrupts where "x" is the OXU number (1 - 8).. Valid for SM-2000 only.
PIINT	= Packet interface (PI) interrupt.
PUMPHW	= Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.
REFE	= Dynamic RAM refresh fail error. Valid for SM-2000 only.
SPINT	= Signal processor interrupt. Not valid for SM-2000.
SSYNC	= Scanned I/O sync error. Valid for SM-2000 only.
STKE	= Stack protect error. Not valid for SM-2000.
TSIIN	= Time-slot interchange (TSI) interrupt. For SM-2000, this will allow interrupts from network link interfaces (NLIs) if the NLIs are not inhibited by an INH:HDWCHK-ONTC request.
TSI4IN	= TSI model four interrupt. Allowing this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.
XCDUxIN	= XCDU interrupt where x is the XCDU number. Allowing this interrupt will result in allowing all interrupts for the requested XCDU including the interrupts from the CIs in that XCDU. Valid for SM-2000 only.
XLCKM	= XCDCLs (electrical control and data control link) or OCDCLs (optical control and data control link) loss of clock interrupt. Valid for SM-2000 only.

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4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:HDW-MCTSI output message.

RL = Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.

5. REFERENCES

Input Message(s):

```
INH:HDW-MCTSI
OP:OFFNORM-SM
```

Output Message(s):

```
ALW:HDW-MCTSI
OP:OFFNORM-SM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-250 *System Recovery Procedures*

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ALW:HDW-MCTSI-B

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a hardware check be allowed in a module controller/time-slot interchange unit (MCTSI). The system enables the indicated HDWCHK if internal checks allow the transition.

2. FORMAT

```
ALW:HDWCHK,MCTSI=a-b,c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Keyword that specifies inhibit bit name. If the keyword is invalid for the specified SM/SM-2000, the request will be denied with the message `STOPPED REQUEST NOT ALLOWED`.

Valid value(s):

`AFFCI` = Active flip-flop cleared interrupt. Valid for SMs with the module controller/time slot interchange unit 3 (MCTU3) and for SM-2000s.

`ALL` = All valid module controller maintenance errors.

`ARPV` = Arbitration protocol violation error. Valid for SM-2000 only.

`ASDPE` = Synchronous data link controller (SDLC) A reset. Not valid for SM-2000.

`BSDPE` = SDLC B reset. Not valid for SM-2000.

`CACHE` = Cache errors. Allowing CACHE on SM-2000s with cache allows the interrupts source while on non-SM-2000s with caches it enables the cache area (the normal mode of operation) as well, which speeds up the operation of the processor. This option is only valid for SMs with the module controller/time slot interchange unit 2 (MCTU2), the extended memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 or CORE700 processor pack. If this error has been inhibited, allowing it will improve processor performance on non-SM-2000s.

`CADPR` = Memory address mismatch error. Valid for SM-2000 only.

`CBERR` = Correctable bit error. If this error has been inhibited, allowing it will improve processor performance. Inhibiting this has no performance impact on SM-2000 or MCTU3.

`CI0IN and CI00IN` = Control interface (CI) 0 interrupt.

`CI1IN and CI01IN` = CI 1 interrupt.

`CI2IN and CI02IN` = CI 2 interrupt. Valid for SM-2000 only.

`CI3IN and CI03IN` = CI 3 interrupt. Valid for SM-2000 only.

`CIdeIN` = CI interrupt in an electrical extended control and data unit (XCDU) or optical

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	extended control and data unit (OXU) shelf. Valid for SM-2000 only.
CPINT	= Enhanced central processor intervention interrupt.
DCODE	= Decode error. Valid for SM-2000 with CORE60 only.
DL0PE	= Dual link interface (DLI) 0 parity error. Not valid for SM-2000.
DL1PE	= DLI 1 parity error. Not valid for SM-2000.
DLI0I	= Data link 0 interrupt. Not valid for SM-2000.
DLI1I	= Data link 1 interrupt. Not valid for SM-2000.
DLISW	= DLI switch error. Not valid for SM-2000.
IAC0	= DLI0 illegal access error. Not valid for SM-2000.
IAC1	= DLI 1 illegal access error. Not valid for SM-2000.
LOSUI	Update interface loss of synchronization. Valid for SM-2000 with CORE700 only.
LPVER	= Bus lock violation. Valid for SM-2000 with CORE60 only.
MADPE	= Address parity error.
MAPCMSC	= Application controller miscellaneous errors (loss of clock, receive cyclic-redundancy-check error, loss of synchronization, and subunit mismatch error). Valid for SM-2000 only.
MCINT	= Resets in the mate controller.
MDLIE	= DLI interface error. Not valid for SM-2000.
MH0IN	= Message handler 0 interrupt. Valid for SM-2000 only.
MH1IN	= Message handler 1 interrupt. Valid for SM-2000 only.
MH2IN	= Message handler 2 interrupt. Valid for SM-2000 only.
MIOIO	= I/O invalid operation error.
MIOLE	= I/O timer lock error.
MIOPE	= I/O bus parity error. Not valid for SM-2000.
MIOTO	= I/O timer time out error.
MIOUE	= I/O unlock error.
MMEME	= Memory system error. Not valid for SM-2000.
MPRIN	= Maintenance interrupts in the mate MCTSI.
MRDYT	= Ready time out.
MRSPERR	= Multiple response error. Valid for MCTU2 and SM-2000 only.
MRWPE	= Read or write parity error.
MSUSM	= Subunit select mismatch. Not valid for SM-2000.
MWPER	= Write protect error.
NCBERR	= Non-correctable bit error. Valid for SM-2000 only.
OXUfIN	= OXU interrupts. Valid for SM-2000 only.
PIINT	= Packet interface (PI) interrupt.
PUMPHW	= Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.
REFE	= Dynamic RAM refresh fail error. Valid for SM-2000 only.
SPINT	= Signal processor interrupt. Not valid for SM-2000.
SSYNC	= Scanned I/O sync error. Valid for SM-2000 with CORE60 only.
STKE	= Stack protect error. Not valid for SM-2000.
TSIIN	= Time-slot interchange (TSI) interrupt. For SM-2000, this will allow interrupts from network link interfaces (NLIs) if the NLIs are not inhibited by an INH:HDWCHK-ONTC request.
TSI4IN	= TSI model four interrupt. Allowing this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.
XCDUgIN	= XCDU interrupt. Allowing this interrupt will result in allowing all interrupts for the requested XCDU including the interrupts from the CIs and DIs in that XCDU. Valid for SM-2000 only.

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`XLCKM` = Electrical control and data control link (XCDCL) or optical control and data control link (OCDCL) loss of clock interrupt. Valid for SM-2000 only.

`d` = Shelf. Valid value(s):
- `0` = Local CI's.
- `1 - 8` = XCDU/OXU number.

`e` = CI number. Valid value(s):
- `0 - 3` = Local. Valid for SM-2000 only.
- `0 - 2` = XCDU/OXU. Valid for SM-2000 only.

`f` = OXU number (1 - 8).

`g` = XCDU number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:HDW-MCTSI output message.

`RL` = Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.

5. REFERENCES

Input Message(s):

```
INH:HDW-MCTSI
OP:OFFNORM-SM
```

Output Message(s):

```
ALW:HDW-MCTSI
OP:OFFNORM-SM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-250 *System Recovery Procedures*

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ALW:HDW-MMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified module message processor (MMP).

2. FORMAT

```
ALW:HDWCHK,MMP=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Message switch side.

`b` = MMP logical identification number.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows. Followed by the ALW:HDWCHK output message.

5. REFERENCES

Input Message(s):

```
INH:HDWCHK
OP:CFGSTAT
```

Output Message(s):

```
ALW:HDWCHK
INH:HDWCHK
OP:CFGSTAT
```

Other Manual(s):
235-105-250 *System Recovery*

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ALW:HDW-MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks (errors) on a message switch control unit (MSCU).

2. FORMAT

```
ALW:HDWCHK,MSCU=a;
```

3. EXPLANATION OF MESSAGE

`a` = MSCU side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO INHIBITS FOR CM1 MSCU` = This office has communications module model 1 (CM1) hardware. Hardware checks cannot be inhibited or allowed on a CM1 MSCU.
- `UNIT UNEQUIPPED` = The specified unit is not equipped.

`PF` = Printout follows. A printout will follow when the requested action is completed.

5. REFERENCES

Input Message(s):

```
INH:HDW-MSCU
OP:HDWCHK
```

Output Message(s):

```
ALW:HDWCHK
```

Other Manual(s):
235-105-220 *System Recovery Procedures*

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ALW:HDW-MSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified metallic service unit common (MSUCOM) board.

2. FORMAT

```
ALW:HDWCHK,MSUCOM=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-NCREF

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on a specified network clock reference (NCREF).

2. FORMAT

```
ALW:HDWCHK,NCREF,a=b;
```

3. EXPLANATION OF MESSAGE

`a` = Network clock reference (NCREF).

Network clock type:	Valid value(s):
Network clock 1 (NC1)	`PRIM` = Primary reference. `SEC` = Secondary reference. `XC` = Cross-couple reference.
Network clock 2 (NC2)	`XC` = Cross-couple reference.

`b` = Network clock side.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

`PF` = Printout follows. The ALW:HDW-NCREF output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-NCREF
OP:CFGSTAT
```

Output Message(s):

```
ALW:HDW-NCREF
INH:HDW-NCREF
OP:CFGSTAT
```

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Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)

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ALW:HDW-OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on an optical facility interface (OFI).

2. FORMAT

```
ALW:HDWCHK,OFI=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ALW:HDW-OFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-OFI`

Output Message(s):

`ALW:HDW-OFI`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):
1490 OIU STATUS

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ALW:HDW-ONTC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified office network and control complex (ONTC).

2. FORMAT

```
ALW:HDWCHK,ONTC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Side of ONTC.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
INH:HDW-ONTC
OP:CFGSTAT
```

Output Message(s):

```
ALW:HDW-ONTC
INH:HDW-ONTC
OP:CFGSTAT
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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ALW:HDW-PCTDX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on a peripheral control and timing data exchanger (PCTDX)

2. FORMAT

```
ALW:HDWCHK,PCTDX=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the ALW:HDW-PCTDX output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-PCTDX`

Output Message(s):

`ALW:HDW-PCTDX`

Input Appendix(es):

`APP:RANGES`

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1330,y (PDXU)

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ALW:HDW-PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on a PCT (Peripheral Control and Timing) line and trunk unit link.

2. FORMAT

```
ALW:HDWCHK,PLTLK=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good.

`PF` = Printout follows. An ALW:HDW PLTLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

None.

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ALW:HDW-PPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified pump peripheral controller (PPC).

2. FORMAT

```
ALW:HDWCHK,PPC=a;
```

3. EXPLANATION OF MESSAGE

`a` = PPC number.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
INH:HDWCHK
OP:CFGSTAT
```

Output Message(s):

```
ALW:HDWCHK
INH:HDWCHK
OP:CFGSTAT
```

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ALW:HDW-PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on a packet switch unit (PSU) common controller (COM).

2. FORMAT

```
ALW:HDWCHK,PSUCOM=a-b-c[-d];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = PSU number.

`c` = Service group number.

`d` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ALW:HDW-PSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-PSUCOM
```

Output Message(s):

```
ALW:HDW-PSUCOM
```

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK

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ALW:HDW-PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on a packet switch unit (PSU) common controller (COM).

2. FORMAT

```
ALW:HDWCHK,PSUCOM=a-b-c[-d];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = PSU number.

`c` = Service group number.

`d` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ALW:HDW-PSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-PSUCOM
```

Output Message(s):

```
ALW:HDW-PSUCOM
```

MCC Display Page(s):
118x,y PSU SHELF
1186,y PSU NETWORK (where y=PSU number)

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ALW:HDW-PSUPH-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on a packet switch unit (PSU) protocol handler (PH).

2. FORMAT

```
ALW:HDWCHK,PSUPH=a-b-c[-d];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = PSU number.

`c` = Shelf number.

`d` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ALW:HDW-PSUPH output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-PSUPH
```

Output Message(s):

```
ALW:HDW-PSUPH
```

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK

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ALW:HDW-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on a packet switch unit (PSU) protocol handler (PH).

2. FORMAT

```
ALW:HDWCHK,PSUPH=a-b-c[-d];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = PSU number.

`c` = Shelf number.

`d` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the ALW:HDW-PSUPH output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-PSUPH
```

Output Message(s):

```
ALW:HDW-PSUPH
```

MCC Display Page(s):
118x,y PSU SHELF
1186,y PSU NETWORK (where y=PSU number)

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ALW:HDW-QGP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified quad-link packet switch gateway processor (QGP).

2. FORMAT

```
ALW:HDWCHK,QGP=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. The ALW:HDW-QGP output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-QGP
OP:HDWCHK
```

Output Message(s):

```
ALW:HDW-QGP
INH:HDW-QGP
OP:HDWCHK
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241/51 (MSGS COMMUNITIES 0-1, 8-9)
1240/50 (MSGS STATUS for CM3)
1380/1 (QLPS NETWORK 0/1 STATUS)

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ALW:HDW-RAF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks in a recorded announcement function (RAF) unit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

```
ALW:HDWCHK,RAF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RAF unit number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the ALW:HDW-RAF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

`INH:HDW-RAF`

Output Message(s):

`ALW:HDW-RAF`

MCC Display Page(s):

(RAF PAGE)

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ALW:HDW-RCL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified remote communication link (RCL) circuit between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits.

2. FORMAT

```
ALW:HDWCHK,RCL=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number.

`c` = CDFI number.

`d` = Facility (FAC) number. The FAC number is the T1 facility number on a CDFI.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Message(s):

```
INH:HDW-RCL
```

Output Message(s):

```
ALW:HDW-RCL
```

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ALW:HDW-RCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level. This message will also allow hardware checks to occur on the mate remote clock cross couple (RCXC) if the RCXC is in service.

2. FORMAT

```
ALW:HDWCHK,RCLK=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RCLK side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. The ALW:HDW-RCLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-RCLK
INH:HDW-RCXC
```

Output Message(s):

```
ALW:HDW-RCLK
ALW:HDW-RCXC
INH:HDW-RCLK
```

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ALW:HDW-RCOSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote clock oscillator (RCOSC) circuit. This message will also allow hardware checks to occur on the remote clock oscillator cross couple (RCOXC) if the RCOXC is in service.

2. FORMAT

```
ALW:HDWCHK,RCOSC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RCOSC side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. The ALW:HDW-RCOSC output message follows.

`RL` = Repeat later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-RCLK
INH:HDW-RCOSC
```

Output Message(s):

```
ALW:HDW-RCOSC
ALW:HDW-RCOXC
INH:HDW-RCOXC
```

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ALW:HDW-RCOXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote clock oscillator cross couple (RCOXC) link.

2. FORMAT

```
ALW:HDWCHK,RCOXC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RCOXC side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. The ALW:HDW-RCOXC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-RCOSC
INH:HDW-RCOXC
```

Output Message(s):

```
ALW:HDW-RCOXC
INH:HDW-RCOXC
```

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ALW:HDW-RCREF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote clock reference (RCREF).

2. FORMAT

```
ALW:HDWCHK,RCREF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Equipped reference number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. The ALW:HDW-RCREF output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-RCLK
```

Output Message(s):

```
ALW:HDW-RCREF
INH:HDW-RCREF
```

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ALW:HDW-RCXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote clock cross couple (RCXC) circuit.

2. FORMAT

```
ALW:HDWCHK,RCXC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RCXC side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. The ALW:HDW-RCXC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-RCLK
INH:HDW-RCLK
INH:HDW-RCXC
```

Output Message(s):

```
ALW:HDW-RCXC
INH:HDW-RCXC
```

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ALW:HDW-RDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote switching module (RSM) digital facilities interface (RDFI) circuit.

2. FORMAT

```
ALW:HDWCHK,RDFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number.

`c` = RDFI number.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ALW:HDW-RDFI output message.

5. REFERENCES

Input Message(s):

```
INH:HDW-RDFI
```

Output Message(s):

```
ALW:HDW-RDFI
```

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ALW:HDW-RLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.

2. FORMAT

```
ALW:HDWCHK,RLI=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the ALW:RLI output message.

5. REFERENCES

Input Message(s):

`INH:HDW-RLI`

Output Message(s):

`ALW:RLI`

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-RRCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks to occur on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK). The system enables the hardware checks if internal status allows the transition.

2. FORMAT

```
ALW:HDWCHK,RRCLK=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RRCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
CONFLICT WITH UNIT STATE
SM DOES NOT EXISTSM UNEQUIPPED
UNIT DOES NOT EXIST
```

`PF` = Printout follows. The ALW:HDW-RRCLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:HDW-RRCLK
```

Output Message(s):

```
ALW:HDW-RRCLK
```

Input Appendix(es):

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```
APP:RANGES
```

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ALW:HDW-RVPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified revertive pulsing transceiver (RVPT).

2. FORMAT

```
ALW:HDWCHK:RVPT=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. An output message will follow with complete status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
ALW:HDW-RVPT
```

Input Appendix(es):

```
APP:RANGES
```

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ALW:HDW-SAS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks in a service announcement system (SAS) unit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

```
ALW:HDWCHK,SAS=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. The ALW:HDW-SAS output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

```
INH:HDW-SAS
```

Output Message(s):

```
ALW:HDW-SAS
INH:HDW-SAS
```

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Input Appendix(es):

```
APP:RANGES
```

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ALW:HDW-SDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified *SLC*®96 digital facility interface (SDFI).

2. FORMAT

```
ALW:HDWCHK,SDFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = DCLU number.

`c` = SDFI number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the ALW:HDW-SDFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
ALW:HDW-SDFI
```

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ALW:HDW-SFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

2. FORMAT

```
ALW:HDWCHK,SFI=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ALW:HDW-SFI output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-SFI`

Output Message(s):

`ALW:HDW-SFI`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

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ALW:HDW-SM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows all hardware error checks in one or more switching modules (SMs). This message cancels the effect of the INH:HDWCHK input message.

2. FORMAT

```
ALW:HDWCHK,SM=a[&&b][,LSM][,HSM][,RSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number or lower limit of a range of SMs.

`b` = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

`IP` = In progress. The message was accepted and the request is in progress.

`NG` = No good. The message was not accepted because an illegal SM number or range was specified.

5. REFERENCES

Input Message(s):

```
INH:HDWCHK
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*

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ALW:HDW-TAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified test and access circuit (TAC).

2. FORMAT

```
ALW:HDWCHK,TAC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-TEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified trunk equipment number (TEN).

2. FORMAT

```
ALW:HDWCHK,TEN=a-b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-TMUX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

2. FORMAT

```
ALW:HDWCHK,TMUX=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An ALW:HDW-TMUX output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:HDW-TMUX`

Output Message(s):

`ALW:HDW-TMUX`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1510 (DNUS STATUS)

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ALW:HDW-TTFCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified transmission test facility common (TTFCOM) circuit pack.

2. FORMAT

```
ALW:HDWCHK,TTFCOM=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital service circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-UCONF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified universal conference (UCONF) circuit board.

2. FORMAT

```
ALW:HDWCHK,UCONF=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital service circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-UTD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified universal tone decoder (UTD).

2. FORMAT

```
ALW:HDWCHK,UTD=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Local digital service unit (LDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDW-UTG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified universal tone generator (UTG).

2. FORMAT

```
ALW:HDWCHK,UTG=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Local digital service unit (LDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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ALW:HDWCHK

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the system status register be set such that a control unit (CU) switch can be implemented as a normal fault recovery procedure, thereby allowing a switch to the standby administrative module (AM) control unit when a fault occurs in the active AM control unit.

2. FORMAT

```
ALW:HDWCHK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:HDWCHK output message.

5. REFERENCES

Input Message(s):

```
ALW:ERRCHK
INH:HDWCHK
OP:ERRCHK
```

Output Message(s):

```
ALW:HDWCHK
INH:HDWCHK
OP:ERRCHK
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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ALW:HIST

Software Release: 5E15 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Allows history recording for the terminal upon which it is entered. Subsequent input requests entered at the terminal will be stored and available for recall and edit. ALW:HIST does not clear the command history buffer.

By default, history recording is enabled when a terminal comes into service.

2. FORMAT

```
ALW:HIST;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = OK. Input request was accepted and has been applied.

5. REFERENCES

Input Message(s):

```
CLR:HIST
INH:HIST
OP:HIST
```

Output Message(s):

```
OP:HIST
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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ALW:HWGRD

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of a line removal message on the receive-only printer (ROP) be allowed when a line unit, dial tone first (DTF) coin, or integrated services line unit (ISLU) Z-card (analog line) is placed out-of-service (OOS) maintenance (MTCE) high-and-wet (HW) ground (GRD).

2. FORMAT

```
ALW:HWGRD[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

`a` = SM number or the lower limit of a range of SMs. If no SM number or range is specified, all equipped and operational SMs will be allowed.

`b` = The upper limit of a range of SMs.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. Followed by ALW:HWGRD output message.

5. REFERENCES

Input Message(s):

```
INH:HWGRD
```

Output Message(s):

```
INH:HWGRD
ALW:HWGRD
```

Output Appendix(es):

```
APP:PORT-STATUS
```

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ALW:MDII-A

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a specific machine-detected interoffice irregularity (MDII) that has reporting suppressed be allowed to be printed again.

2. FORMAT

```
ALW:MDII=a,TG=b;
```

3. EXPLANATION OF MESSAGE

`a` = The MDII suppressed on a trunk group. Valid value(s):

- `2SPDT` = Partial dial timeout in the second stage of a traditional 2-stage international outbound call.
- `2SPST` = Permanent signal timeout in the second stage of a traditional 2-stage international outbound call.
- `2SVCA` = Vacant code in the second stage of a traditional 2-stage international outbound call.
- `ABF` = Abandon failure.
- `ACK` = No acknowledgment wink.
- `ANF` = Failure to receive automatic number identification (ANI) digits on incoming LATA trunk.
- `ANF2` = ANI collected by an operator following a failure to receive ANI digits on an incoming centralized automatic message accounting (CAMA) trunk.
- `ANI` = Time-out waiting for far off-hook from Traffic Service Position System (TSPS) before sending ANI digits.
- `AST` = Position acknowledge seizure signal time-out.
- `ATO` = Time-out waiting for address complete signal.
- `BAF` = Blocking acknowledgment failure.
- `BLFCA` = Blocking a fully coded addressed international outbound call routed to a non-CCS trunk.
- `CAF` = Circuit reset acknowledgment failure.
- `CAI` = Address incomplete received.
- `CII` = Initial address message (IAM) irregularity (incoming).
- `CKF` = Continuity check failure (incoming).
- `COF` = Confusion received (outgoing).
- `CRA` = Circuit reservation message (CRM) timer timed out while waiting for a circuit reservation acknowledgment (CRA) message.
- `CQR` = Circuit query message (CQM) timed out while waiting for a circuit query reply (CQR) message.
- `CRR` = Reset received (incoming).
- `CTO` = Continuity timeout (incoming).
- `CVN` = Vacant national number received (outgoing).
- `DDF` = Delay dial, steady off-hook.

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DSN	= Delay dial, steady on-hook.
EXD	= Extra digit.
EXP	= Extra pulse.
FCA	= Final closure abandon.
FKP	= False key pulse.
FSA	= False start abandon.
HGBAF	= Hardware group blocking acknowledgment failure.
HGUAF	= Hardware group unblocking acknowledgment failure.
IAD	= Incomplete address detected (incoming).
IAM	= CRA timer timed out while waiting for an IAM.
ICA	= Incoming advance.
IDIG	= Invalid digit.
KPST	= Received call on equal access trunk which contains a KP + ST ANI sequence.
MCA	= Misrouted CAMA.
MGBAF	= Maintenance group blocking acknowledgment failure.
MGUAF	= Maintenance group unblocking acknowledgment failure.
MPS	= Misplaced start pulse.
MRF	= Message refusal received (outgoing).
MTD	= Mutilated digit.
NACK	= No ground acknowledgment received on a ground start private facility (FX) trunk.
NKP	= No key pulse.
NOANI	= Received call on an equal access trunk which contains no ANI information. This call will not be blocked.
ONOA	= OSPS nature of address.
OSI	= Operator services information.
PAT	= Position attached signal time-out.
PDA	= Partial dial abandon.
PDT	= Partial dial time-out.
PFR	= Polarity failure.
PST	= Permanent signal time-out.
RLG	= Release guard on unstable call (outgoing).
RST	= Reset received (outgoing).
SGD	= Failure to receive station group designator (SGD).
SSD	= No second start dial wink.
TRR	= Tip-ring reversal.
TTR	= Operator trunk trouble reports.
UAF	= Unblocking acknowledgment failure.
UCA	= Unauthorized CAMA.
UQL	= Unequipped label received (outgoing).
UXS	= Unexpected stop.
VCA	= Vacant code.
VPA	= Voice path assurance timeout (outgoing).
WBF	= Incoming wideband call spans facilities or trunk groups.
WSN	= Wink start, steady on-hook.
WSR	= Wink start, steady off-hook.
XST	= Expected stop time-out.

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b = Trunk group number.

4. SYSTEM RESPONSE

NA = No acknowledgment. Request has not been acknowledged. It is probable that the request has been lost.

PF = Printout follows. Request has been accepted. The ALW:MDII output message will follow identifying the results of the request.

5. REFERENCES

Input Message(s):

```
INH:MDII
OP:MDII
```

Output Message(s):

```
ALW:MDII
OP:MDII
REPT:MDII
```

Output Appendix(es):

```
APP:MDII
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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ALW:MDII-B

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a specific machine-detected interoffice irregularity (MDII) that has reporting suppressed be allowed to be printed again.

2. FORMAT

```
ALW:MDII=a,TG=b;
```

3. EXPLANATION OF MESSAGE

`a` = The MDII suppressed on a trunk group. Valid value(s):

- `2SPDT` = Partial dial timeout in the second stage of a traditional 2-stage international outbound call.
- `2SPST` = Permanent signal timeout in the second stage of a traditional 2-stage international outbound call.
- `2SVCA` = Vacant code in the second stage of a traditional 2-stage international outbound call.
- `ABF` = Abandon failure.
- `ACK` = No acknowledgment wink.
- `ANF` = Failure to receive automatic number identification (ANI) digits on incoming LATA trunk.
- `ANF2` = ANI collected by an operator following a failure to receive ANI digits on an incoming centralized automatic message accounting (CAMA) trunk.
- `ANI` = Time-out waiting for far off-hook from traffic service position system (TSPS) before sending ANI digits.
- `APMTO` = Application transport message time out.
- `AST` = Position acknowledge seizure signal time-out.
- `ATO` = Time-out waiting for address complete signal.
- `BAF` = Blocking acknowledgment failure.
- `BLFCA` = Blocking a fully coded addressed international outbound call routed to a non-CCS trunk.
- `CAF` = Circuit reset acknowledgment failure.
- `CAI` = Address incomplete received.
- `CHRTO` =Connection Hold Release Request Timeout at the Originating Switch.
- `CII` = Initial address message (IAM) irregularity (incoming).
- `CKF` = Continuity check failure (incoming).
- `COF` = Confusion received (outgoing).
- `CRA` = Circuit reservation message (CRM) timer timed out while waiting for a circuit reservation acknowledgment (CRA) message.
- `CQR` = Circuit query message (CQM) timed out while waiting for a circuit query reply (CQR) message.
- `CRR` = Reset received (incoming).
- `CTO` = Continuity timeout (incoming).

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CVN	= Vacant national number received (outgoing).
DDF	= Delay dial, steady off-hook.
DSN	= Delay dial, steady on-hook.
EXD	= Extra digit.
EXP	= Extra pulse.
FCA	= Final closure abandon.
FKP	= False key pulse.
FSA	= False start abandon.
HGBAF	= Hardware group blocking acknowledgment failure.
HGUAF	= Hardware group unblocking acknowledgment failure.
IAD	= Incomplete address detected (incoming).
IAM	= CRA timer timed out while waiting for an IAM.
ICA	= Incoming advance.
IDIG	= Invalid digit.
IPSIG	= Internet protocol signal data error.
KPST	= Received call on equal access trunk which contains a KP + ST ANI sequence.
MCA	= Misrouted CAMA.
MGBAF	= Maintenance group blocking acknowledgment failure.
MGUAF	= Maintenance group unblocking acknowledgment failure.
MPS	= Misplaced start pulse.
MRF	= Message refusal received (outgoing).
MTD	= Mutilated digit.
NACK	= No ground acknowledgment received on a ground start private facility trunk.
NCA	= No circuit available.
NKP	= No key pulse.
NOANI	= Received call on an equal access trunk which contains no ANI information. This call will not be blocked.
ONOA	= OSPS nature of address.
OSI	= Operator services information.
PAT	= Position attached signal time-out.
PDA	= Partial dial abandon.
PDT	= Partial dial time-out.
PFR	= Polarity failure.
PST	= Permanent signal time-out.
RLG	= Release guard on unstable call (outgoing).
RST	= Reset received (outgoing).
SGD	= Failure to receive station group designator (SGD).
SSD	= No second start dial wink.
TRR	= Tip-ring reversal.
TTR	= Operator trunk trouble reports.
UAF	= Unblocking acknowledgment failure.
UCA	= Unauthorized CAMA.
UQL	= Unequipped label received (outgoing).
UXS	= Unexpected stop.
VCA	= Vacant code.
VPA	= Voice path assurance timeout (outgoing).
WBF	= Incoming wideband call spans facilities or trunk groups.
WSN	= Wink start, steady on-hook.

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WSR = Wink start, steady off-hook.
XST = Expected stop time-out.

b = Trunk group number.

4. SYSTEM RESPONSE

NA = No acknowledgment. Request has not been acknowledged. It is probable that the request has been lost.

PF = Printout follows. Request has been accepted. Followed by the ALW:MDII output message identifying the results of the request.

5. REFERENCES

Input Message(s):

```
INH:MDII
OP:MDII
```

Output Message(s):

```
ALW:MDII
OP:MDII
REPT:MDII
```

Output Appendix(es):

```
APP:MDII
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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ALW:MISMATCH

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that line card/network termination (NT) mismatch detection be allowed on integrated services digital network (ISDN) lines equipped with U-cards. To be certain of the results of this message, the following three conditions should be noted.

First, ALW:MISMATCH without the report (REPT) option will only enable mismatch detection. No output will be provided on the receive-only printer (ROP), but the port status of out-of-service (OOS) blocked (BLKD) lines will be updated to OOS BLKD mismatch (MSMTCH) for those lines having mismatches. Second, ALW:MISMATCH,REPT will provide a printout on the ROP of the lines that have mismatches only if the ALW:MISMATCH message is also entered on a separate message line. ALW:MISMATCH,REPT does not turn on mismatch detection. Third, to allow the NT mismatch detection and the NT mismatch report on a switching module (SM), the office parameters for NT mismatch detection and NT mismatch report must also be set to Y, using Recent Change/Verify (RC/V) OFFICE PARAMETERS view 8.1 (refer to MISMATCH DETECTION ENABLE and REPORT on RC/V view 8.1).

2. FORMAT

```
ALW:MISMATCH[,REPT][,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`REPT` = Allow the reporting on the ROP of the lines found to have mismatches, provided that mismatch detection has been allowed.

`a` = SM number or the lower limit of a range of SM numbers. If no SM number or range is specified, all equipped and operational SMs will be allowed.

`b` = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. Followed by ALW:MISMATCH output message.

5. REFERENCES

Input Message(s):

`INH:MISMATCH`

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Output Message(s):

```
INH:MISMATCH
ALW:MISMATCH
```

Output Appendix(es):

```
APP:PORT-STATUS
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1 (OFFICE PARAMETERS)

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ALW:MON

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the operating system for distributed switching (OSDS) monitor actions be allowed.

The ALW:MON messages activates the OSDS monitor by setting the monitor control word a non-zero value. This is the first word of the OShisarray monitor buffer in the administrative module (AM) or the SIhistory monitor buffer in the switching module (SM) or the communications module processor (CMP).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it. This message should be used under the guidance of high-level technical support.

NOTE: An increase in the processor occupancy is directly related to the number of options specified for the SET:MON-WTD, SET:MON-DATA, SET:MON-FCN, SET:MON-SPEC input messages.

2. FORMAT

```
ALW:MON,{AM|SM=a|CMP=b-c};
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number.

`b` = Message switch side.

`c` = Communications module processor (CMP) number.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows. Followed by ALW:MON output message.

`RL` = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

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```
INH:MON
SET:MON-DATA
SET:MON-FCN
SET:MON-SPEC
SET:MON-WTD
```

Output Message(s):

```
ALW:MON
```

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ALW:NMOUT-A

Software Release: 5E15 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of output messages stimulated by the remote network management center (RNMC) be allowed.

2. FORMAT

```
ALW:NMOUT[,TYPE=a];
```

3. EXPLANATION OF MESSAGE

`a` = Message type. The default is to allow all output messages resulting from RNMC actions.
Valid value(s):

`CGAP`	= Call gapping code controls messages.
`DOC`	= Dynamic overload controls messages.
`SILC`	= Selective incoming load controls messages.
`SSTR`	= Service selective trunk reservation controls messages.
`TGC`	= Manual trunk group controls messages.
`TR`	= Trunk reservation controls messages.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. May also include:
- `INVALID REQUEST` = This office is not equipped to process the request entered.
- `INVALID TYPE` = An invalid message type was entered.

`OK` = Good. The input message executed successfully.

5. REFERENCES

Input Message(s):

```
INH:NMOUT
OP:NMOUT
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

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ALW:NMOUT-B

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of output messages stimulated by the remote network management center (RNMC) be allowed.

2. FORMAT

```
ALW:NMOUT[,TYPE=a];
```

3. EXPLANATION OF MESSAGE

`a` = Message type. The default is to allow all output messages resulting from RNMC actions.
Valid value(s):

`CGAP`	= Call gapping code controls messages.
`DOC`	= Dynamic overload controls messages.
`SILC`	= Selective incoming load controls messages.
`SSTR`	= Service selective trunk reservation controls messages.
`TGC`	= Manual trunk group controls messages.
`TR`	= Trunk reservation controls messages.
`HTR`	= Hard-to-reach (HTR) controls messages.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. May also include:
- `INVALID REQUEST` = This office is not equipped to process the request entered.
- `INVALID TYPE` = An invalid message type was entered.
- `FEATURE NOT AVAILABLE` = The HTR feature is not available.

`OK` = Good. The input message executed successfully.

5. REFERENCES

Input Message(s):

```
INH:NMOUT
OP:NMOUT
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

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ALW:PCTF

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the per-call test failure (PCTF) verbose mode be allowed. Allowing the PCTF verbose mode on a switching module (SM) causes individual REPT:PCTF reports to be generated for every PCTF that occurs on the SM. When the PCTF verbose mode is not allowed (inhibited), only the first and tenth occurrences of a PCTF type on a line is reported.

2. FORMAT

```
ALW:PCTF,VERBOSE[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

`a` = SM number or the lower limit of a range of SM numbers. The default is all equipped SMs.

`b` = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. Followed by ALW:PCTF output message.

5. REFERENCES

Input Message(s):

```
INH:PCTF
```

Output Message(s):

```
ALW:PCTF
INH:PCTF
REPT:PCTF
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ALW:PLNT24-A

Software Release: 5E15 - 5E16(2)
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of the regularly scheduled 24-hour plant report to the ROP be allowed. The specified part(s) will continue to be automatically printed until inhibited by the INH:PLNT24 input message.

By default, PART24 is inhibited for the ROP and ALW:PLNT24 and "ALL" will not cause PART24 to be allowed for the ROP. PART24 can only be allowed for the ROP by entering `ALW:PLNT24;PART24`.

2. FORMAT

```
ALW:PLNT24:{a|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Allow all parts of the 24-hour plant report (except PART24).

`a` = Name of report part to be allowed. Valid value(s):

- `PART1` = Service measurements.
- `PART2` = Equipment performance.
- `PART3` = Performance measurements.
- `PART4` = Remote switching module (RSM) maintenance service and performance.
- `PART5` = Trunk error analysis.
- `PART6` = Interlata carrier measurements.
- `PART7` = Network call denial.
- `PART8` = RSM cluster measurements.
- `PART9` = Integrated services digital network (ISDN) packet switching office totals.
- `PART10` = Operator Services Position System (OSPS) processors counts.
- `PART11` = ISDN Office totals.
- `PART13` = OSPS real-time rating query measures.
- `PART14` = OSPS facility administration measures.
- `PART15` = OSPS measurements.
- `PART16` = OSPS interflow measures.
- `PART17` = OSPS line information data base (LIDB) measures.
- `PART18` = OSPS customer account services (CAS).
- `PART19` = Action control point (ACP) for software defined networks.
- `PART21` = Leased network action point.
- `PART22` = OSPS intercept measures.
- `PART23` = OSPS customer account services release 3 signaling measures.
- `PART24` = Machine detected inter-office irregularity (MDII) trunk group measurements.
- `PART25` = ISDN user part (ISUP) office totals.
- `PART26` = DS1 measurements.
- `PART27` = Static proportionate bidding (PB) measurements.
- `PART28` = OSPS international credit card validation (ICCV) measures by foreign database.

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PART29 = OSPS line applications for consumers (LAC) signaling measures.
PART30 = OSPS originating line number screening (OLNS) measures.
PART36 = Signaling link performance.

4. SYSTEM RESPONSE

NG = No good. The request was made during the automatic preparation of the report. The OP:PLNT24-NOT output message will follow. May also include:
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

OK = Good. The part(s) was/were allowed.

5. REFERENCES

Input Message(s):

```
INH:PLNT24
OP:PLNT24
OP:ST-PLNT24
```

Output Message(s):

```
OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNT24-PT19
OP:PLNT24-PT21
OP:PLNT24-PT22
OP:PLNT24-PT23
```

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```
OP:PLNT24-PT24
OP:PLNT24-PT25
OP:PLNT24-PT26
OP:PLNT24-PT27
OP:PLNT24-PT28
OP:PLNT24-PT29
OP:PLNT24-PT30
OP:PLNT24-PT36
OP:ST-PLNT24
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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ALW:PLNT24-B

Software Release: 5E17(1) and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of the regularly scheduled 24-hour plant report to the ROP be allowed. The specified part(s) will continue to be automatically printed until inhibited by the INH:PLNT24 input message.

By default, PART24 is inhibited for the ROP and ALW:PLNT24 and "ALL" will not cause PART24 to be allowed for the ROP. PART24 can only be allowed for the ROP by entering `ALW:PLNT24;PART24`.

2. FORMAT

```
ALW:PLNT24:{a|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Allow all parts of the 24-hour plant report (except PART24).

`a` = Name of report part to be allowed. Valid value(s):

- `PART1` = Service measurements.
- `PART2` = Equipment performance.
- `PART3` = Performance measurements.
- `PART4` = Remote switching module (RSM) maintenance service and performance.
- `PART5` = Trunk error analysis.
- `PART6` = Interlata carrier measurements.
- `PART7` = Network call denial.
- `PART8` = RSM cluster measurements.
- `PART9` = Integrated services digital network (ISDN) packet switching office totals.
- `PART10` = Operator Services Position System (OSPS) processors counts.
- `PART11` = ISDN Office totals.
- `PART13` = OSPS real-time rating query measures.
- `PART14` = OSPS facility administration measures.
- `PART15` = OSPS measurements.
- `PART16` = OSPS interflow measures.
- `PART17` = OSPS line information database (LIDB) measures.
- `PART18` = OSPS customer account services (CAS).
- `PART19` = Action control point (ACP) for software defined networks.
- `PART21` = Leased network action point.
- `PART22` = OSPS intercept measures.
- `PART23` = OSPS customer account services release 3 signaling measures.
- `PART24` = Machine detected inter-office irregularity (MDII) trunk group measurements.
- `PART25` = ISDN user part (ISUP) office totals.
- `PART26` = DS1 measurements.
- `PART27` = Static proportionate bidding (PB) measurements.
- `PART28` = OSPS international credit card validation (ICCV) measures by foreign database.

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PART29 = OSPS line applications for consumers (LAC) signaling measures.
PART30 = OSPS originating line number screening (OLNS) measures.
PART36 = Signaling link performance.
PART37 = ATM quality of service.
PART38 = ATM quality of service for PSU to PSU connection.

4. SYSTEM RESPONSE

NG = No good. The request was made during the automatic preparation of the report. The OP:PLNT24-NOT output message will follow. May also include:
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

OK = Good. The part(s) was/were allowed.

5. REFERENCES

Input Message(s):

```
INH:PLNT24
OP:PLNT24
OP:ST-PLNT24
```

Output Message(s):

```
OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNT24-PT19
OP:PLNT24-PT21
```

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```
OP:PLNT24-PT22
OP:PLNT24-PT23
OP:PLNT24-PT24
OP:PLNT24-PT25
OP:PLNT24-PT26
OP:PLNT24-PT27
OP:PLNT24-PT28
OP:PLNT24-PT29
OP:PLNT24-PT30
OP:PLNT24-PT36
OP:PLNT24-PT37
OP:PLNT24-PT38
OP:ST-PLNT24
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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ALW:PLNTHR

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of the hourly plant report be allowed. The report will be output until it is inhibited using the INH:PLNTHR input message.

2. FORMAT

```
ALW:PLNTHR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `PRINT ALLOCATION EXCEEDED` = The message allocation for this office has reached its limit. The requested report has not been allowed.

`OK` = Good. The request was accepted and completed. May also include:
- `LPS SET TO DISCARD` = The report has been allowed, but may not be seen because the log/print status is set to discard this class of message.

5. REFERENCES

Input Message(s):

```
CHG:LPS-MSGCLS
INH:PLNTHR
OP:MEASTAT
OP:PLNTHR
```

Output Message(s):

```
OP:MEASTAT-PRNT
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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ALW:PM

Software Release: 5E17(1) and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that performance monitoring (PM) session be allowed.

2. FORMAT

```
[1]    ALW:PM,SESTYPE=a,SESID=b[&&c];
       _____________________________________________________________

[2]    ALW:PM,SESTYPE=a,PSALNK=d-e-f;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Type of performance monitoring session.

`b` = Session ID - lower limit session ID in a range of session IDs. The minimum session ID number is 1.

`c` = Upper limit session ID in a range of session IDs. The maximum session ID number is 1024.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = ATM link number. Range is 1-10.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by the ALW:PM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:PM`

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Output Message(s):

```
ALW:PM
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):
1187,y,z PSU/ATM LINKS STATUS (where y=PSU number and z=SM number)

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ALW:PUMP

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be allowed on a major initialization (selective initialization or full initialization). This message cancels the effect of the INH:PUMP-SM input message.

2. FORMAT

```
ALW:PUMP,{CMP=a|SM=b[&&c]}[,LSM][,HSM][,RSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = CMP number.

`b` = SM number, or lower limit of a range of SM numbers.

`c` = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because an illegal SM number or invalid range/type combination was specified. The message was not accepted because an illegal CMP number was specified.

`OK` = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

`INH:PUMP-SM`

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*

MCC Display Page(s):

1800 (SM INH & RCVRY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)

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ALW:RC

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that office-dependent data (ODD) recent changes (RCs) be allowed into the system if they were previously inhibited.

2. FORMAT

```
ALW:RC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
ALW:CORC
INH:CORC
INH:RC
```

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ALW:RCDLY

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that telephone activations of recent change delayed messages (RCDMs) be allowed in the system if they were previously inhibited.

2. FORMAT

```
ALW:RCDLY;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

```
INH:RCDLY
OP:RCDLY
```

Output Message(s):

```
REPT:RCDLY
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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ALW:RCLOG

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that logging of recent changes be allowed for all processors. Customer-originated recent changes are not affected.

2. FORMAT

```
ALW:RCLOG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The input message is not valid

`OK` = Good. The request was accepted.

`RL` = Retry later. Cannot service request at this time because RC logging control is either too busy or not alive. The logging process will be recreated immediately if it is dead.

5. REFERENCES

Input Message(s):

```
ALW:CORCLOG-SM
```

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ALW:REORD-SM

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that additional information on calls that are routed to reorder be collected for a switching module (SM) or a range of SMs, and the information be reported on the receive-only printer (ROP) after 15 minutes have elapsed or information for the first 30 reorder events has been collected, whichever occurs first.

2. FORMAT

```
ALW:REORD,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or the lower limit in a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The request was denied because the requested feature is already active.

`OK` = Good. Request was accepted.

`RL` = Retry later. Reorder timer is currently unavailable.

5. REFERENCES

Input Message(s):

```
INH:REORD
```

Output Message(s):

```
REPT:REORD
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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ALW:REORG

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

To allow automatic reorganization of all data base relations listed on the REPT:REORG output message. This message will allow automatic reorganizations triggered by the SET:REORG scheduling mechanism and on-demand reorganizations triggered by the EXC:REORG input message.

2. FORMAT

```
ALW:REORG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

```
EXC:REORG
INH:REORG
SET:REORG
```

Output Message(s):

```
REPT:REORG
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ALW:REX-CM-SM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Allows either one or all valid test types of routine exercise (REX) of the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs.

2. FORMAT

```
ALW:REX[,CM][,SM=a[&&b]][,c];
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = REX test type to be allowed (default is to allow all three test types). Valid value(s):

- `DGN` = Allow diagnostic exercise.
- `ELS` = Allow electronic loop segregation tests. This is not a valid test type for the CM.
- `FAB` = Allow fabric exerciser tests of grids. This is not a valid test type for the CM.

NOTE: If neither CM nor SM is specified, the default is to exercise hardware in the CM and all SMs.

4. SYSTEM RESPONSE

`NG` = No good. The request was not a valid entry.

`OK` = Good. Request is valid and accepted.

`RL` = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
OP:REX-CM-SM
```

Output Message(s):

```
OP:REXINH
```

MCC Display Page(s):

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1280 (REX STATUS (SM)))
1290 (REX STATUS (CM))

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ALW:REX-UNIT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the scheduling of a unit for routine exercise (REX) be allowed in the communication module (CM) or in a switching module (SM). This applies only to diagnostic (DGN) tests.

2. FORMAT

```
ALW:REX{,CM[,d[=c]]|,SM=a,b[=c]};
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = The SM unit type to be allowed. DGN tests are the only test types that may be inhibited on a unit basis. Valid value(s):

`AIU`	= Access Interface Unit.
`ASC`	= Alarm service circuit.
`BTSR`	= Bootstrapper circuit.
`DCLU`	= Digital carrier line unit.
`DCTU`	= Directly connected test unit.
`DLTU`	= Digital line and trunk unit.
`DNUS`	= Digital networking unit - synchronous optical network (DNU-S).
`GDSF`	= Global digital services function.
`GDSU`	= Global digital service unit.
`IDCU`	= Integrated digital carrier unit.
`ISLU`	= Integrated services line unit.
`ISTF`	= Integrated services test facility.
`LDSU`	= Local digital service unit.
`LU`	= Line unit.
`MCTSI`	= Module controller/time slot interchanger.
`MSU`	= Metallic service unit.
`MTIB`	= Metallic test interface bus.
`PSU`	= Packet switching unit.
`RAF`	= Recorded announcement frame.
`RAU`	= Remote answering unit.
`RCLK`	= Remote clock.
`RLI`	= Remote line interface.
`SAS`	= Service announcement system.
`TU`	= Trunk unit.
`PLTU`	= Peripheral Line and Trunk Unit.
`IWG`	= Inter-Working Gateway.

`c` = Unit number.

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`d` = The CM unit type to be inhibited. Valid value(s):
- `MSGS` = Message switch.
- `ONTC` = Office network timing complex.

4. SYSTEM RESPONSE

`NG` = No good. The request was not a valid entry.

`OK` = Good. Request is valid and accepted.

`RL` = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
INH:REX-CM-SM
INH:REX-UNIT
OP:REXINH
```

Output Message(s):

```
OP:REXINH
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1280 REX STATUS (SM)
1290 REX STATUS (CM)

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ALW:REX

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that routine exercises (REX) be allowed by clearing individual routine exercise inhibits for one or more hardware communities by clearing the REX temporary inhibit(s). A hardware community consists of a major device controller and its associated subdevices. If a hardware community has REX permanently inhibited, its REX temporary inhibit is not available.

WARNING: It may be desirable to keep REX inhibited on some units. Unless units are specified with this message, all administrative module (AM) controllers including the ring peripheral controller nodes (RPCNs) will be allowed for REX. Because of the configuration of the common network interface (CNI) ring, RPCNs should never be allowed for REX. Allowing REX on RPCNs may lead to service degradation or interruption.

2. FORMAT

```
ALW:REX[,a[=b]];
```

3. EXPLANATION OF MESSAGE

`ALL` = Clear the temporary REX inhibits for all major community controllers that are not permanently inhibited from REX.

`a` = Unit name of a major community controller. Applications may add additional major controllers which may be allowed by this input message. Valid value(s):

- `CU` = Control unit.
- `DCI` = Dual serial channel/computer interconnect.
- `IOP` = Input/output processor.

NOTE: If not specified, then routine exercises will be allowed for all AM controllers.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual. If not specified, then all controllers with the specified unit name are allowed.

4. SYSTEM RESPONSE

`NG` = No good. Routing exercises are permanently inhibited for the unit specified or for all the units specified.

`OK` = Good. Routine exercises are allowed for the units specified or for at least one of the units

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specified.

PF = Printout follows. Followed by an ALW:REX output message.

RL = Retry later. The database manager or a database record could not be opened. Try again at a later time. If this persists, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:DMQ
INH:DMQ
INH:REX
OP:DMQ
OP:REXINH
```

Output Message(s):

```
ALW:REX
OP:DMQ
OP:REXINH
```

Input Appendix(es):

```
APP:MEM-NUM-UNIT
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ALW:RPC

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

The purpose of this input message is to allow routine port conditioning. Port conditioning is the process of determining the status of a port, and depending on the port type, setting the hardware and scanning registers to reflect that status.

2. FORMAT

```
ALW:RPC[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

`a` = SM number or the lower limit of a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit of a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

NOTE: If no SM number or range is specified, all equipped and operational SMs will be allowed.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and the ALW:RPC output message will follow.

`NG` = No good. The input message was not recognized or acceptable.

5. REFERENCES

Input Message(s):

`INH:RPC`

Output Message(s):

`ALW:RPC`

Input Appendix(es):

`APP:RANGES`

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ALW:RT-FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that protection (PROT) line switch requests be allowed to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) or requests that a DS1 be allowed to be released from protection. This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU).

2. FORMAT

```
ALW:RT,FAC=a-b,{PROT|RELEASE};
```

3. EXPLANATION OF MESSAGE

`PROT` = Allow switching from the specified DS1 FAC to the protection line (for use with the DCLU or the IDCU).

`RELEASE` = Allow a DS1 to be released from protection (for use with the IDCU only).

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RT DS1 FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. An ALW:RT-FAC output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`INH:RT-FAC`

Output Message(s):

`ALW:RT-FAC`

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)

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ALW:RT-PROV-REPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of remote terminal (RT) report messages be allowed at the Master Control Center (MCC) and the Switching Control Center (SCC). This message is applicable for RTs terminating on an Integrated Digital Carrier Unit (IDCU) or Digital Networking Unit SONET (DNU-S).

2. FORMAT

```
ALW:RT,PROV,REPT,{SM=a|SID=b|{IDCURT|DNUSRT}=a-c-d};
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Site identification (SID) number of the RT.

`c` = Unit number.

`d` = Local RT (LRT) number.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted and the requested action was completed.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

5. REFERENCES

Input Message(s):

```
INH:RT-REPT
OP:RT-REPT
```

Output Message(s):

```
OP:RT-REPT
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

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188xyy (IDCU/DNU-S REMOTE TERMINAL)

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ALW:RT-REPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be allowed. This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
ALW:RT,REPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted and the requested action was completed.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

5. REFERENCES

Input Message(s):

```
INH:RT-REPT
OP:RT-REPT
```

Output Message(s):

```
OP:RT-REPT
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)

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ALW:RTMTBOVR

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that metallic setup failure override be allowed when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT). If the MTB is really open and override is allowed, metallic setup will succeed. The system default is to allow metallic setup failure override.

This message will set an override flag in a switching module (SM) to the allow state. The flag can be set in one SM or in all SMs. If individual SMs are set differently, be aware that if the modular metallic service unit (MMSU) and RT are in different SMs a remote read of the flag stored in the RT SM is done from the MMSU SM. If the remote read fails, the default of the override flag will be that stored in the MMSU SM.

2. FORMAT

```
ALW:RTMTBOVR[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number, or the lower limit of a range of SM numbers. If no SM number or range is specified, all equipped and operational SMs will be allowed.

`b` = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. The request has been accepted and a ALW:RTMTBOVR message will follow.

5. REFERENCES

Input Message(s):

```
ALW:RTMTBPRT
INH:RTMTBOVR
INH:RTMTBPRT
```

Output Message(s):

```
ALW:RTMTBOVR
ALW:RTMTBPRT
```

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```
INH:RTMTBOVR
INH:RTMTBPRT
```

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ALW:RTMTBPRT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of the REPTRTMTBSID message be allowed when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).

The system default is to allow the printing of this message. This can be inhibited with the input message INH:RTMTBPRT. By inhibiting the printing of this message, the ability to see the cause of metallic setup failure will be lost. If, however, metallic setup override is allowed with the message ALW:RTMTBOVR, then it might be desirable not to have the message print. Consider carefully what configuration is desired in the office.

This message will set a print flag in a switching module (SM) to the allow state. The flag can be set in one or in all SMs. If individual SMs are set differently, be aware that if the modular metallic service unit (MMSU) and RT are in different SMs a remote read of the flag stored in the RT SM is done from the MMSU SM. If the remote read fails, the default of the print flag will be that stored in the MMSU SM.

2. FORMAT

```
ALW:RTMTBPRT[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number, or the lower limit of a range of SM numbers. If no SM number or range is specified, all equipped and operational SMs will be allowed.

`b` = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. The request has been accepted and an ALW:RTMTBPRT message will follow.

5. REFERENCES

Input Message(s):

```
ALW:RTMTBOVR
INH:RTMTBOVR
INH:RTMTBPRT
```

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Output Message(s):

```
ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBOVR
INH:RTMTBPRT
```

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ALW:RTRACK

Software Release: 5E15 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Requests that entry into the ring tracker mode be allowed; a prior INH:RTRACK input message has inhibited ring tracker mode.

2. FORMAT

```
ALW:RTRACK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. The request was not accepted; reason will follow.

`PF` = Printout follows. Followed by the ALW:RTRACK output message.

`RL` = Retry Later

5. REFERENCES

Input Message(s):

```
EXC:RTRACK
INH:RTRACK
OP:RTRACK
STOP:RTRACK
```

Output Message(s):

```
ALW:RTRACK
EXC:RTRACK
INH:RTRACK
OP:RTRACK
REPT:RING-CFR
STOP:RTRACK
```

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ALW:RUTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an allow of all break points in the specified common network interface (CNI) node. The user is informed about the result of this operation. When this break point has fired MHIT times it is automatically inhibited (disabled).

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

```
ALW:RUTIL=a-b,AP[:MHIT=c];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Maximum number of hits to be allowed for that break point. If not specified MHIT is set to 10.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by ALW:RUTIL output message.

5. REFERENCES

Input Message(s):

```
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
```

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```
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL
```

Output Message(s):

```
ALW:RUTILFLAG
ALW:RUTIL
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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ALW:RUTILFLAG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an allow of the specified break point in the specified common network interface (CNI) ring node. The user is informed about the result of this operation. When this break point has fired MHIT times, it automatically becomes inhibited (disabled).

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

```
ALW:RUTILFLAG=a-b,AP:BP=c[:MHIT=d];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Specific break point to be allowed.

`d` = Maximum number of hits to be allowed for that break point. If not specified MHIT is set to 10.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:RUTILFLAG output message.

5. REFERENCES

Input Message(s):

```
ALW:RUTIL
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
```

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```
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL
```

Output Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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ALW:S7ACK

Software Release: 5E15 and later
Command Group: TRK
Application: 5
Type: Input

1. PURPOSE

Allows the printing of the ISUP/BICC abnormal acknowledgement output message.

The abnormal acknowledgement output message is allowed following a system initialization.

2. FORMAT

```
ALW:S7ACK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:S7ACK output message.

`OK` = Request accepted. May also include:
`- ABNORMAL ACK REPT ALLREADY ALLOWED`

5. REFERENCES

Input Message(s):

```
INH:S7ACK
OP:S7ACK
```

Output Message(s):

```
INH:S7ACK
OP:S7ACK
REPT:ABNORMAL-AT
```

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ALW:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

This command allows viewing of CCSMTCE messages.

It allows observing the reception and sending of any reset, blocking, unblocking, or related acknowledgement message; and any continuity, circuit query and circuit validation message.

It should be used with SET:S7RPT and EXC:S7RPT to start viewing CCSMTCE messages. S7RPT observations will only be active for an hour after the initial ALW:S7RPT command was entered. By entering additional ALW:S7RPT commands, the current observation interval can be extended, thus preserving the current settings. A warning output report will be given 10 minutes before an observation expires. If S7RPT observations are still active one hour after the last ALW:S7RPT command was entered, then:

- All S7RPT observation scopes and types will be cleared.
- All S7RPT observation sessions will be terminated.

Should system operation be impacted by this message:

- The input message STP:S7RPT, can be used to halt observation on a specific scope.
- The input message SET:S7RPT, can be used to halt observation on a specific type.
- The input message INH:S7RPT, can be used to halt observation on all scopes and turn off the ALW command.

Requesting this message may cause large amounts of data to be printed on the receive-only-printer (ROP).

All observation output reports are logged into a daily log file by request.

2. FORMAT

```
ALW:S7RPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = The message has been accepted. May also include:
`OBSERVATION INTERVAL EXTENDED 1 HOUR` = The input message has been issued before.

`PF` = Printout follows. Refer to the ALW:S7RPT output message.

`NG` = No good. May also include:
`- FEATURE NOT AVAILABLE` = The command cannot be used in this office. The office

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should be upgraded.

- HARDWARE NOT OPERATIONAL = CCS is not available in the office.

5. REFERENCES

Input Message(s):

```
INH:S7RPT
EXC:S7RPT
STP:S7RPT
OP:S7RPT
```

Output Message(s):

```
ALW:S7RPT
```

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ALW:S7XCHK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

To Allow demand or automatic periodic PCI7GR cross checking to run. It must be entered before EXC:S7XCHK to start demand mode PCI7GR cross checking.

PCI7GR cross check is not allowed during CNI to PSU conversion.

2. FORMAT

```
ALW:S7XCHK[,TYPE=PCI7GR];
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = The request has been accepted. May also include:
- `PCI7GR CROSS CHECK ALLOWED` = Cross checking has been allowed.
- `PCI7GR CROSS CHECK ALREADY ALLOWED` = Cross checking was already allowed.

`RL` = Retry later. The request has been denied. May also include:
- `CNI TO PSU CONVERSION IN PROGRESS.` = CNI to PSU conversion process is in progress.

5. REFERENCES

Input Message(s):

```
INH:S7XCHK
EXC:S7XCHK
STP:S7XCHK
OP:S7XCHK
```

Output Message(s):

```
EXC:S7XCHK
```

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ALW:SCORPT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that information related to switch cutoff calls be allowed, either with or without an accompanying hardware call trace.

A switch cutoff (SCO) occurs when an established connection is broken for some reason other than an onhook by one of the talking parties (that is, hardware or software failures, procedural errors or exhausted resources).

2. FORMAT

```
ALW:SCORPT[,a];
```

3. EXPLANATION OF MESSAGE

`a` = Option selected. Valid value(s):

`DEBUG` = If this option is selected, a more detailed SCO report from a software viewpoint is generated.

NOTE 1: Because of the large amount of information that will print with this option, support personnel should implement this ONLY if a large number of SCOs still occur after all hardware and resource problems have been resolved.

NOTE 2: Additional possible call cutoffs that were not pegged on the measurements report may be shown in this report with this option. This is the only way to see these "possible" call cutoffs.

`TRC` = Print a hardware call trace (TRC:UTIL-LINE) with each SCO report that occurs.

4. SYSTEM RESPONSE

`OK` = Good. The request has been received. All subsequent occurrences of switch cutoff calls will print an information report (REPT:SWITCH-CC).

5. REFERENCES

Input Message(s):

```
INH:SCORPT
```

Output Message(s):

```
REPT:SWITCH-CC
```

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```
TRC:UTIL-LINE
```

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ALW:SCSD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that transitions of a scanner and signal distributor (SCSD) scan point be reported. Scan points can be identified by physical location (as in Format 1) or by logical address (as in Format 2).

2. FORMAT

```
[1]    ALW:SCSD:UNIT=a,PT=b[-b-b-b-b-b-b-b];

[2]    ALW:SCSD:GRPN="c",DUPID=d,PT=e[-e-e-e-e-e];
```

3. EXPLANATION OF MESSAGE

`a` = SCSD unit member number.

`b` = Physical scan point number on an SCSD.

`c` = Name of the logical SCSD group. Valid value(s):

```
FANACU0
FANACU1
PDF0
PRSWCU0
PRSWCU1
PRSWIOP0
PRSWIOP1
PRSWDFC0
PRSWDFC1
PRSWMHD0
PRSWMHD1
PTSWROP
PTSWMCR
```

`d` = Duplex point ID.

`e` = Number of a point within a logical group.

4. SYSTEM RESPONSE

`NG` = No good. The SCSD administrator process is not active; no communication with SCSD points is possible.

`PF` = Printout follows. Followed by ALW:SCSD output message.

`RL` = Retry later.

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5. REFERENCES

Input Message(s):

```
INH:SCSD
OP:SCSD
RMV:SCSDC
RST:SCSDC
```

Output Message(s):

```
ALW:SCSD
INH:SCSD
OP:SCSD
ORD:SCSD
REPT:FAN
REPT:SCSD
REPT:SCSDC
RMV:SCSDC
RST:SCSDC
```

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ALW:SFTCHK-SM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that all software error checks be allowed in one or more switching modules (SMs), or a specified communication module processor (CMP). This message cancels the effect of the INH:SFTCHK input message.

2. FORMAT

```
ALW:SFTCHK,{CMP=a|SM=b[&&c][,LSM][,HSM][,RSM][,ORM][,TRM]};
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of any acronyms shown in the format.

`a` = CMP number.

`b` = SM number, or lower limit of a range of SM numbers.

`c` = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because an illegal SM number or invalid range/type combination was specified.

`OK` = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

```
INH:SFTCHK
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*

MCC Display Page(s):

1800 (SM INH & RCVRY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)

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ALW:SFTCHK

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Allows the software error handling routines to incorporate system initialization into their error recovery procedures as a means of handling administrative module (AM) software sanity problems.

2. FORMAT

```
ALW:SFTCHK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ALW:SFTCHK output message.

5. REFERENCES

Input Message(s):

```
ALW:ERRCHK
INH:SFTCHK
OP:ERRCHK
```

Output Message(s):

```
ALW:SFTCHK
INH:SFTCHK
OP:ERRCHK
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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ALW:SRM-A

Software Release: 5E15 - 5E19(1)
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of software resource measurement (SRM) information be allowed for a switching module (SM).

2. FORMAT

```
ALW:SRM,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

4. SYSTEM RESPONSE

`OK` = The request has been accepted. Software resource measurement information will be reported every 30 minutes for the requested SM.

5. REFERENCES

Input Message(s):

`INH:SRM`

Output Message(s):

`OP:SRM`

Other Manual(s):

235-070-100 Administration and Engineering Guidelines

RC/V View(s):

8.40 (SRE INCREMENTAL GLOBAL PARAMETERS)

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ALW:SRM-B

Software Release: 5E20(1) and later
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the reporting of software resource measurement (SRM) information be allowed for a switching module (SM).

WARNING: This message should be used under the guidance of high-level technical support. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

2. FORMAT

```
ALW:SRM,SM=a[,INTVL=b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = Output reporting interval, expressed in minutes. Permitted values are 5, 15, 30, and 60 minutes. The default is 30 minutes.

4. SYSTEM RESPONSE

`NG` = No good. May include the following:
- `INVALID REPORT INTERVAL` = The specified output reporting interval is not one of the permitted values.
- `SRM ALREADY ALLOWED` = SRM reporting is already allowed for this SM. To modify the reporting interval, the report must be inhibited.

OK = The request has been accepted. The SRM report is scheduled for this SM. The report will be output at the end of the next full reporting interval. For example, a request for SRM measurements for a 30 minute cycle is processed at 12:35:00. The report will be output at 13:30:00 and every subsequent 30 minute interval, until the report is inhibited.

5. REFERENCES

Input Message(s):

```
INH:SRM
```

Output Message(s):

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`OP:SRM`

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-145-100 *Call Processing Description*

RC/V View(s):
8.40 SRE INCREMENTAL GLOBAL PARAMETERS

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ALW:SSTR

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a single service selective trunk reservation (SSTR) control be allowed for a specified trunk group after being inhibited by the INH:SSTR input message or by the INH option of the ASGN:SSTR input message.

2. FORMAT

```
ALW:SSTR,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number that has a SSTR control assigned.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an ALW:SSTR output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:SSTR
INH:SSTR
OP:SSTR
```

Output Message(s):

```
ALW:SSTR
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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ALW:TCLRPT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of information be allowed related to transient calls lost either with or without an accompanying hardware call trace.

When TRC is specified, a hardware call trace (TRC:UTIL input message) is invoked for each transient call lost occurring.

2. FORMAT

```
ALW:TCLRPT[,TRC];
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK	= Good. The request has been received. All subsequent occurrences of transient calls lost will print an information report (REPT:TRANSIENT-CL).

5. REFERENCES

Input Message(s):

```
INH:TCLRPT
TRC:UTIL
```

Output Message(s):

```
REPT:TRANSIENT-CL
```

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ALW:TFTP

Software Release: 5E21(1) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To request a trivial file transfer protocol (TFTP) server to run on a protocol handler (PH). TFTP is a standard protocol defined by RFC 1350. It is used for transferring data over user datagram protocol (UDP) over internet protocol (IP).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. It should never be used without expert technical assistance.

2. FORMAT

```
ALW:TFTP,SERVERCHNG=a-b-c-d,INTFCHNG=a-b-e-f,INTFIP=g-g-g-g...
...,CLIENTIP=h-h-h-h[,PORT=i][,SERVERDUR=j];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number for server PH. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel group number for server PH. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PSU shelf number for interface PH. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel group number for interface PH. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = INTFIP number. The range is 0-255.

NOTE: INTFIP is the IP address used by the PHE interface. Each entry (variable `` `g` ``) is part of the INTFIP address.

`h` = CLIENTIP number. The range is 0-255.

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NOTE: CLIENTIP is the IP address used by the TFTP client. Each entry (variable `h`) is part of the CLIENTIP address.

`i` = UDP port TFTP server uses. The range is 1-65535. The default is 69.

`j` = TFTP server duration in minutes. The TFTP server will run for this number of minutes. The range is 10-120. The default is 60.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted. May also include:

- `INTERFACE IP ADDRESS INVALID` = The requested interface channel group does not have the requested
- `INTERFACE PH HAS NO PACKET BUS IP ADDRESS` = The requested interface channel group does not have an IP address assigned for the packet bus.
- `INTERFACE PH NOT VALID` = The requested interface channel group does not exist, or is not a PHE. INTFIP IP address.
- `PSU MISMATCH BETWEEN SERVER AND INTERFACE PH` = The PSU of the requested server channel group is different from the PSU of the requested interface channel group. The server and interface PHs must be on the same PSU.
- `SERVER ALREADY RUNNING` = A TFTP server is already running on a PH on this SM. Only one TFTP server can run concurrently per SM.
- `SERVER PH HAS NO IP ADDRESS` = The requested server channel group does not have an IP address assigned.
- `SM MISMATCH BETWEEN SERVER AND INTERFACE PH` = The SM of the requested server channel group is different from the SM of the requested interface channel group. The server and interface PHs must be on the same SM.

`PF` = Printout follows. The message was accepted and a printout will follow.

5. REFERENCES

Input Message(s):

```
INH:TFTP
OP:TFTP
```

Output Message(s):

```
ALW:TFTP
INH:TFTP
OP:TFTP
REPT:TFTP
```

Input Appendix(es):

```
APP:RANGES
```

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ALW:TOD

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that the display of the time of day (TOD) database update failure message be allowed.

2. FORMAT

```
ALW:TOD,FAIL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request has been accepted.

5. REFERENCES

Input Message(s):

```
INH:TOD
```

Output Message(s):

```
REPT:TOD-FAIL
```

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ALW:TR

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a single trunk reservation (TR) control be allowed for a specified trunk group.

2. FORMAT

```
ALW:TR,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number that has a TR control assigned.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an ALW:TR output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

`INH:TR`
`OP:TR`

Output Message(s):

`ALW:TR`

Other Manual(s):
235-190-101 *Business and Residence Modular Features*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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ALW:TRACE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that tracing be allowed to take place according to the previously input trace parameter settings. The ALW:TRACE and the INH:TRACE input messages form the basic on/off mechanism for trace. The parameter settings may be changed at any time through use of the SET:TRACE (whether tracing is allowed or inhibited). Until the ALW:TRACE request is issued, no trace report will be attempted (although it will consume a certain amount of fixed overhead).

NOTE: The interprocessor message switch (IMS) driver process must be running before trace updates can be sent to the node processors (NP).

2. FORMAT

```
ALW:TRACE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The ALW:TRACE output message will be printed.

5. REFERENCES

Input Message(s):

```
INH:TRACE
OP:TRACE
SET:TRACE
```

Output Message(s):

```
ALW:TRACE
INH:TRACE
OP:TRACE
REPT:TRACE
SET:TRACE
```

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ALW:TRAP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a pending trap that was entered by the SET:TRAP input message be activated. In addition, this input message will allow a trap that was temporarily suspended/inhibited or that has completed due to duration or message count criterion being satisfied to be resumed.

Traps that have been aborted before completing can be restarted by entering the ALW:TRAP input message. Traps that have been stopped by a STOP:TRAP input message can not be reactivated with an ALW:TRAP input message. These traps can only be activated by entering a new SET:TRAP input message. Traps will be activated for the specified identification numbers.

2. FORMAT

```
ALW:TRAP:ID={a[-a[-a[-a]]]|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Activate all pending traps.

`a` = Trap identification number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an ALW:TRAP output message.

5. REFERENCES

Input Message(s):

```
INH:TRAP
OP:TRAP
SET:TRAP
STOP:TRAP
```

Output Message(s):

```
ALW:TRAP
```

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

MCC Display Page(s):

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118 (CNI FRAME AND CCS LINK STATUS)

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ALW:TRFC15

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the 15-minute traffic report be allowed to be output to the receive-only printer (ROP). The report will continue to be output until turned off by the INH:TRFC15 message.

2. FORMAT

```
ALW:TRFC15;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `PRINT ALLOCATION EXCEEDED` = The message allocation for this office has reached its limit. The requested report has not been allowed.

`OK` = Good. The requested report has been allowed. May also include:
- `LPS SET TO DISCARD` = The report has been allowed, but output may not be seen because the log/print status is set to discard messages of this class.

5. REFERENCES

Input Message(s):

```
INH:TRFC15
OP:MEASTAT
OP:TRFC15
```

Output Message(s):

```
OP:MEASTAT-PRNT
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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ALW:TRFC30-A

Software Release: 5E15 - 5E17(1)
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified section of the 30-minute traffic report be allowed to be collected (CLCT) or output to the traffic channel (TRFCH) or receive-only printer (ROP) every 30 minutes. The specified section will continue to be collected in the administrative module (AM) or output every 30 minutes until it is inhibited using the INH:TRFC30 input message. If no section is specified, an attempt will be made to allow all sections starting with Section 1. Those sections which do not fit in the buffer will remain inhibited. Sections which require identifiers in addition to the section name are not included in ALL or the default case.

NOTE: Some recent changes may need to be done first before allowing some sections. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

WARNING: If no sections are specified, all sections that do not require arguments will be allowed.

2. FORMAT

```
ALW:TRFC30,{CLCT|TRFCH|ROP}[:a|:ALL];
```

3. EXPLANATION OF MESSAGE

NOTE: Collection must be allowed before directions to print or prior to being allowed for the traffic channel.

`ALL` = Allow all sections that do not require identifiers default.

`a` = Section name that is to be allowed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `CONFIGURATION NOT SUPPORTED` = The section requested represents a configuration not present in this office.
- `DATABASE ERROR` = A database error prevented the request from being successfully completed.
- `INCOMPLETE UNIT ID` = The identifiers entered incompletely specified a unit.
- `INVALID UNIT IDENTIFIERS` = The identifier entered did not specify a unit for which data can be collected, or too many identifiers were entered for the ALW:TRFC30-ROP when a section with multiple study sets was requested.
- `MEMORY ALLOCATION EXCEEDED` = The TRFC30 buffer (memory) allocation would be exceeded if the section were allowed.
- `MUST INHIBIT CURRENTLY ALLOWED STUDY SET` = This section is a special study

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section that can not have study sets allowed for collection concurrently. The study set that is currently allowed must be inhibited before any other study set from this section will be allowed for collection.

- `NOT ALLOWED FOR COLLECTION` = The section cannot be allowed for output because it is not allowed for collection.
- `PREVIOUS SAVED STUDY SET DOES NOT EXIST` = This section is a special study section that did not save the arbitrary study set or the arbitrary study set does not exist.
- `PRINT ALLOCATION EXCEEDED` = The printing time allocation would be exceeded if the section were allowed for output to the ROP and/or TRFCH.
- `SECTION NOT ALLOWABLE FOR PRINT` = The section cannot be allowed for the ROP and/or TRFCH.
- `SOME NOT ALLOWED- MEMORY ALLOCATION EXCEEDED` = The TRFC30 buffer (memory) allocation would be exceeded if ALL sections were allowed; some section(s) remain inhibited.
- `SOME NOT ALLOWED - PRINT ALLOCATION EXCEEDED` = The printing time allocation would be exceeded if ALL sections were allowed; some section(s) remain inhibited.
- `SOME SECTIONS NOT ALLOWED FOR ROP|TRFCH` = ALL sections were requested, one or more sections are not allowed for output because they are not allowed for collection. Use the OP:STATUS,TRFC30 input message to determine which sections are inhibited for ROP|TRFCH. OP:MEASTAT,CLCT input message can be used to determine which sections are inhibited for collection.
- `NO GROUPS ENABLED` = Enable group by using the recent change/verify (RC/V) view before allowing specific sections. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for information on which RC/V views are appropriate for specific sections.

`NO` = The requested action failed. May also include:

- `FEATURE NOT AVAILABLE` = The feature required to process the request is not present in the switch.

`OK` = Good. The section(s) were allowed that could be allowed; however, section(s) that could not be allowed for ROP and/or TRFCH will remain inhibited when ALW:TRFC30,ROP,ALL is requested. May also include:

- `LPS SET TO DISCARD` = The section(s) were allowed, but output may not be seen because the log print status (LPS) is set to discard messages of this class.

`PF` = Printout follows. The ALW:TRFC30 output message will be printed.

5. REFERENCES

Input Message(s):

```
INH:TRFC30
OP:OFR-FORM
OP:ST-TRFC30
OP:TRFC30
```

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Output Message(s):

```
ALW:ST-TRFC30
ALW:TRFC30
INH:TRFC30
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30
OP:TRFC30-ND
```

Input Appendix(es):

```
APP:TRFC-SECTION
```

Output Appendix(es):

```
APP:TRFC-SECTION
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-118-216 *Recent Change Procedures, Menus, Views, and Form IDs*

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ALW:TRFC30-B

Software Release: 5E18(1) - 5E19(1)
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified section of the 30-minute traffic report be allowed to be collected (CLCT) or output to the traffic channel (TRFCH) or ROP every 30 minutes. The specified section will continue to be collected in the administrative module (AM) or output every 30 minutes until it is inhibited using the INH:TRFC30 input message. If no section is specified, an attempt will be made to allow all sections starting with Section 1. Those sections which do not fit in the buffer will remain inhibited. Sections which require identifiers in addition to the section name are not included in ALL or the default case.

Some recent changes may need to be done first before allowing some sections. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

WARNING: If no sections are specified, all sections that do not require arguments will be allowed.

2. FORMAT

```
ALW:TRFC30,a[:b|:ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Allow all sections that do not require identifiers default.

`a:` = Output destination. Valid value(s):
- `CLCT` = Collection must be allowed before directions to print or prior to being allowed for the traffic channel.
- `ROP`
- `TRFCH`

`b` = Section name that is to be allowed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

`c` = Number of elements allowed.

`d` = Maximum number of elements allowable for this section.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `ALW/INH:TRFC30 NOT ALLOWED AT THIS TIME` = Report is being generated and therefore manual requests are locked out to avoid data inconsistency.
- `CONFIGURATION NOT SUPPORTED` = The section requested represents a configuration

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not present in this office.
- DATABASE ERROR = A database error prevented the request from being successfully completed.
- INCOMPLETE UNIT ID = The identifiers entered incompletely specified a unit.
- INVALID UNIT IDENTIFIERS = The identifier entered did not specify a unit for which data can be collected, or too many identifiers were entered for the ALW:TRFC30-ROP when a section with multiple study sets was requested.
- MEMORY ALLOCATION EXCEEDED = The TRFC30 buffer (memory) allocation would be exceeded if the section were allowed.
- MUST INHIBIT CURRENTLY ALLOWED STUDY SET = This section is a special study section that can not have study sets allowed for collection concurrently. The study set that is currently allowed must be inhibited before any other study set from this section will be allowed for collection.
- NOT ALLOWED FOR COLLECTION = The section cannot be allowed for output because it is not allowed for collection.
- PREVIOUS SAVED STUDY SET DOES NOT EXIST = This section is a special study section that did not save the arbitrary study set or the arbitrary study set does not exist.
- PRINT ALLOCATION EXCEEDED = The printing time allocation would be exceeded if the section were allowed for output to the ROP and/or TRFCH.
- SECTION NOT ALLOWABLE FOR PRINT = The section cannot be allowed for the ROP and/or TRFCH.
- SOME NOT ALLOWED– MEMORY ALLOCATION EXCEEDED = The TRFC30 buffer (memory) allocation would be exceeded if ALL sections were allowed; some section(s) remain inhibited.
- SOME NOT ALLOWED – PRINT ALLOCATION EXCEEDED = The printing time allocation would be exceeded if ALL sections were allowed; some section(s) remain inhibited.
- SOME SECTIONS NOT ALLOWED FOR ROP|TRFCH = ALL sections were requested, one or more sections are not allowed for output because they are not allowed for collection. Use the OP:STATUS,TRFC30 input message to determine which sections are inhibited for ROP|TRFCH. OP:MEASTAT,CLCT input message can be used to determine which sections are inhibited for collection.
- NO GROUPS ENABLED = Enable group by using the recent change/verify (RC/V) view before allowing specific sections. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for information on which RC/V views are appropriate for specific sections.

NO = The requested action failed. Valid value(s):
- FEATURE NOT AVAILABLE = The feature required to process the request is not present in the switch.

OK = Good. The section(s) were allowed that could be allowed; however, section(s) that could not be allowed for ROP and/or TRFCH will remain inhibited when ALW:TRFC30,ROP,ALL is requested. Valid value(s):
- LPS SET TO DISCARD = The section(s) were allowed, but output may not be seen because the log print status (LPS) is set to discard messages of this class.
- ALLOWED ELEMENTS COUNT : c (LIMIT=d)

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PF = Printout follows. Followed by the ALW:TRFC30 output message.

5. REFERENCES

Input Message(s):

```
INH:TRFC30
OP:OFR-FORM
OP:ST-TRFC30
OP:TRFC30
```

Output Message(s):

```
ALW:ST-TRFC30
ALW:TRFC30
INH:TRFC30
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30
OP:TRFC30-ND
```

Input Appendix(es):

```
APP:TRFC-SECTION
```

Output Appendix(es):

```
APP:TRFC-SECTION
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*

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ALW:TRFC30-C

Software Release: 5E20(1) and later
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified section of the 30-minute traffic report be allowed to be collected (CLCT) or output to the traffic channel (TRFCH) or ROP every 30 minutes. The specified section will continue to be collected in the administrative module (AM) or output every 30 minutes until it is inhibited using the INH:TRFC30 input message. If no section is specified, an attempt will be made to allow all sections starting with Section 1. Those sections which do not fit in the buffer will remain inhibited. Sections which require identifiers in addition to the section name are not included in ALL or the default case.

Some recent changes may need to be done first before allowing some sections. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

WARNING: If no sections are specified, all sections that do not require arguments will be allowed.

2. FORMAT

```
ALW:TRFC30,a{,ALL|,b,[ALL[,GMSM]]};
```

3. EXPLANATION OF MESSAGE

`ALL` = Allow all sections that do not require identifiers.

Allow all components when following sections are specified: `OIU`, `TSM`, `BEARERLNK`, `PKTZ`, `IPOIU`.

`GMSM` = Allow all components to be collected on global maintenance switching module (GMSM) only.

This parameter is valid for the following sections: `OIU`, `TSM`, `BEARERLNK`, `PKTZ`, `IPOIU`.

`a` = Output destination. Valid value(s):

- `CLCT` = Collection must be allowed before directions to print or prior to being allowed for the traffic channel.
- `ROP`
- `TRFCH`

`b` = Section name that is to be allowed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):

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- ALW/INH:TRFC30 NOT ALLOWED AT THIS TIME = Report is being generated and therefore manual requests are locked out to avoid data inconsistency.
- CONFIGURATION NOT SUPPORTED = The section requested represents a configuration not present in this office.
- DATABASE ERROR = A database error prevented the request from being successfully completed.
- INCOMPLETE UNIT ID = The identifiers entered incompletely specified a unit.
- INVALID UNIT IDENTIFIERS = The identifier entered did not specify a unit for which data can be collected, or too many identifiers were entered for the ALW:TRFC30-ROP when a section with multiple study sets was requested.
- MEMORY ALLOCATION EXCEEDED = The TRFC30 buffer (memory) allocation would be exceeded if the section were allowed.
- MUST INHIBIT CURRENTLY ALLOWED STUDY SET = This section is a special study section that can not have study sets allowed for collection concurrently. The study set that is currently allowed must be inhibited before any other study set from this section will be allowed for collection.
- NO GROUPS ENABLED = Enable group by using the recent change/verify (RC/V) view before allowing specific sections. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for information on which RC/V views are appropriate for specific sections.
- NOT ALLOWED FOR COLLECTION = The section cannot be allowed for output because it is not allowed for collection.
- PREVIOUS SAVED STUDY SET DOES NOT EXIST = This section is a special study section that did not save the arbitrary study set or the arbitrary study set does not exist.
- PRINT ALLOCATION EXCEEDED = The printing time allocation would be exceeded if the section were allowed for output to the ROP and/or TRFCH.
- SECTION NOT ALLOWABLE FOR PRINT = The section cannot be allowed for the ROP and/or TRFCH.
- SOME NOT ALLOWED- MEMORY ALLOCATION EXCEEDED = The TRFC30 buffer (memory) allocation would be exceeded if ALL sections were allowed; some section(s) remain inhibited.
- SOME NOT ALLOWED - PRINT ALLOCATION EXCEEDED = The printing time allocation would be exceeded if ALL sections were allowed; some section(s) remain inhibited.
- SOME SECTIONS NOT ALLOWED FOR ROP|TRFCH = ALL sections were requested, one or more sections are not allowed for output because they are not allowed for collection. Use the OP:STATUS,TRFC30 input message to determine which sections are inhibited for ROP|TRFCH. OP:MEASTAT,CLCT input message can be used to determine which sections are inhibited for collection.

NO = The requested action failed. Valid value(s):

- FEATURE NOT AVAILABLE = The feature required to process the request is not present in the switch.

OK = Good. The section(s) were allowed that could be allowed; however, section(s) that could not be allowed for ROP and/or TRFCH will remain inhibited when ALW:TRFC30,ROP,ALL is requested. Valid value(s):

- LPS SET TO DISCARD = The section(s) were allowed, but output may not be seen

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because the log print status (LPS) is set to discard messages of this class.

PF = Printout follows. Followed by the ALW:TRFC30 output message.

5. REFERENCES

Input Message(s):

```
INH:TRFC30
OP:OFR-FORM
OP:ST-TRFC30
OP:TRFC30
```

Output Message(s):

```
ALW:ST-TRFC30
ALW:TRFC30
INH:TRFC30
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30
OP:TRFC30-ND
```

Input Appendix(es):

```
APP:TRFC-SECTION
```

Output Appendix(es):

```
APP:TRFC-SECTION
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*

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ALW:TSESS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Resume a subscriber line and instrument measurement (SLIM) routine mode test session that has previously been suspended.

2. FORMAT

```
ALW:TSESS,SESS=a;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the test session to be resumed (1-40).

4. SYSTEM RESPONSE

`IP` = In process.

`NG` = No good. May also include:

```
  - TEST SESSION a NOT DEFINED
  - TEST SESSION a NOT SUSPENDED
```

5. REFERENCES

MCC Display Page(s):

162 (TESTSESSION STATUS)

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ALW:UMEM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Causes the administrative module (AM) generic access package (GRASP) transfer trace to start monitoring the flow of execution, as previously set up with an INIT:UMEM message. The transfer trace goes into the running state with successful completion of the message. This message can be used either as an immediate action, or it can be used in the action list of a WHEN message.

WARNING: Use of this GRASP capability can degrade system performance. It should not be used without expert technical assistance.

2. FORMAT

```
ALW:UMEM{!|;}
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`NG` = No good. No trace is defined.

`PF` = Printout follows. Followed by ALW:UMEM output message.

`RL` = Retry later or wait for the previous OP:UMEM to complete. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
INH:UMEM
INIT:UMEM
OP:UMEM
OP:UTIL
WHEN:PID
WHEN:UID
```

Output Message(s):

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```
ALW:UMEM
OP:UTIL
```

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ALW:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that generic utility WHEN breakpoint clauses in the communication module processors (CMP) be allowed or enabled.

This message may be used together with any of the other CMP generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ALW:UT:CMP=a,{MATE|PRIM},{UTIL|UTILFLAG=b}{!|;}
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby CMP.

`PRIM` = Execute this input message on the active CMP.

`UTIL` = Execute this input message on all of the WHEN clauses in the specified CMP.

`a` = CMP number.

`b` = The identification number of a specific WHEN clause, which is to be enabled to an active state. Must be a number from 0 to 127.

NOTE: When requesting the enabling of WHEN clauses which have the TIME parameter specified, a maximum of 20 WHEN clauses may be enabled in one allow input message.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

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```
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
ALW:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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ALW:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that generic utility WHEN clauses in the packet interface unit (PI) be allowed or enabled.

NOTE: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ALW:UT:MCTSI=a-b,PI,{UTIL|UTILFLAG=c}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified PI.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Side of the module controller/time-slot interchanger (MCTSI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` The identification number of a specific WHEN clause, which is to be enabled to an active state.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
```

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```
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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ALW:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.

NOTE: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ALW:UT:PSUPH=a-0-b-c,{UTIL|UTILFLAG=d}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified PSUPH.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` The identification number of a specific WHEN clause, which is to be enabled to an active state.

NOTE: When requesting the enabling of WHEN clauses which have the TIME parameter specified, a maximum of 20 WHEN clauses may be enabled in one allow input message.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
ALW:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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ALW:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.

This input message is not supported on PSUPHs of the PH2 hardware type.

This message may be used together with any of the other PSUPH generic utility input messages.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ALW:UT:PSUPH=a-b-c-d,e{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Extent of WHEN clauses to be included in this execution.

- `UTIL` = Execute this input message on all of the WHEN clauses in the specified PSUPH.
- `UTILFLAG=f` = Execute this input message on the specific WHEN clause in the specified PSUPH.

`f` The identification number of a specific WHEN clause, which is to be enabled to an active

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state.

NOTE: When requesting the enabling of WHEN clauses which have the TIME parameter specified, a maximum of 20 WHEN clauses may be enabled in one allow input message.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
ALW:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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ALW:UT-SM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that generic utility WHEN breakpoint clauses in the switching module (SM) be allowed or enabled.

This message may be used together with any of the other SM generic utility input messages. If this message is used together with other generic utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ALW:UT:SM=a[&&b],{UTIL|UTILFLAG=c}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified SM(s).

`a` = SM number or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = The identification number of a specific WHEN clause, which is to be enabled to an active state.

NOTE: When requesting the enabling of WHEN clauses which have the TIME parameter specified, a maximum of 20 WHEN clauses may be enabled in one allow input message.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
END:UT-SM
```

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```
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
ALW:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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ALW:UTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all currently defined administrative module (AM) generic access package (GRASP) breakpoints be enabled so that the associated actions are executed when the breakpoint conditions occur.

WARNING: Use of this GRASP capability can degrade system performance. It should not be used without expert technical assistance.

2. FORMAT

```
ALW:UTIL{;|!}
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`NG` = No good. No GRASP breakpoints are currently defined.

`PF` = Printout follows. Followed by ALW:UTIL output message.

`RL` = Retry later. The system is in an overload condition or completing previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
ALW:UTILFLAG
INH:UTIL
OP:UTIL
WHEN:PID
WHEN:UID
```

Output Message(s):

```
ALW:UTIL
OP:UTIL
```

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ALW:UTILFLAG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a specific administrative module (AM) generic access package (GRASP) breakpoint be enabled so that the associated actions are executed when the breakpoint condition occurs. The ALW:UTILFLAG message can be used to enable a breakpoint immediately, or as an action associated with a breakpoint.

2. FORMAT

```
ALW:UTILFLAG=a{;|!}
```

3. EXPLANATION OF MESSAGE

`a` = Numeric identifier (one or more decimal digits) for the breakpoint to be enabled.

4. SYSTEM RESPONSE

`IP` = In progress. The message was added to the WHEN action list.

`NG` = No good. Identifier does not correspond to a currently defined breakpoint.

`PF` = Printout follows. Followed by ALW:UTILFLAG output message.

`RL` = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
ALW:UTIL
INH:UTILFLAG
OP:UMEM
OP:UTIL
WHEN:PID
WHEN:UID
```

Output Message(s):

```
ALW:UTILFLAG
OP:UTIL
WHEN:PID
WHEN:UID
```

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10. APPLY

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APPLY:OMDB

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Applies previous updates to the new copy of the output message data base (OMDB) disk file during field update.

2. FORMAT

```
APPLY:OMDB;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress. Followed by the APPLY:OMDB output message.

5. REFERENCES

Input Message(s):

```
ACTV:OMDB
OP:OMDB
UPD:OMDB
```

Output Message(s):

```
APPLY:OMDB
```

Other Manual(s):
235-105-250 *Craft Terminal Lockout Job Aid*

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11. ASGN

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ASGN:DOC-A

Software Release: 5E15 only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.

For the *AUTOPLEX®* application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
ASGN:DOC,TG=a,RESP=b[,CNTL=c];
```

3. EXPLANATION OF MESSAGE

`a` = CCS trunk group number. Must be a one-way outgoing or a two-way trunk group.

`b` = Response category. These categories designated 'A' through 'F' along with traffic type and level of DOC received determine the percentage of calls on which to apply DOC.

DOC Response Category

DOC LEVEL RECEIVED	TRAFFIC TYPE	RESPONSE CATEGORY					
		A	B	C	D	E	F
DOC1	Alternate route	0%	0%	75%	0%	0%	100%
	Direct route	0%	0%	50%	0%	0%	0%
DOC2	Alternate route	0%	0%	75%	100%	100%	100%
	Direct route	0%	0%	75%	0%	75%	75%
DOC3	All traffic	100%	100%	100%	100%	100%	100%

For example, the office receives a DOC2 level. If the user assigns DOC and the response category chosen is E, DOC will be applied to 100% of the alternate route traffic and 75% of the direct route traffic.

`c` = Control action. Valid value(s):
`CANT` = DOC CANT control.
`SKIP` = DOC SKIP control.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
– `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the ASGN:DOC output message.

`RL` = Retry later. May also include:

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- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

`CLR:DOC`
`OP:DOC`

Output Message(s):

`ASGN:DOC`

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION

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ASGN:DOC-B

Software Release: 5E16(1) only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.

2. FORMAT

```
ASGN:DOC,TG=a,RESP=b[,CNTL=c];
```

3. EXPLANATION OF MESSAGE

a = CCS trunk group number. Must be a one-way outgoing or a two-way trunk group.

b = Response category. These categories designated 'A' through 'F' along with traffic type and level of DOC received determine the percentage of calls on which to apply DOC.

DOC Response Category

DOC LEVEL	TRAFFIC	RESPONSE CATEGORY					
RECEIVED	TYPE	A	B	C	D	E	F
DOC1	Alternate route	0%	0%	75%	0%	0%	100%
	Direct route	0%	0%	50%	0%	0%	0%
DOC2	Alternate route	0%	0%	75%	100%	100%	100%
	Direct route	0%	0%	75%	0%	75%	75%
DOC3	All traffic	100%	100%	100%	100%	100%	100%

For example, the office receives a DOC2 level. If the user assigns DOC and the response category chosen is E, DOC will be applied to 100% of the alternate route traffic and 75% of the direct route traffic.

c = Control action. Valid value(s):
CANT = DOC CANT control.
SKIP = DOC SKIP control.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the ASGN:DOC output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

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5. REFERENCES

Input Message(s):

```
CLR:DOC
OP:DOC
```

Output Message(s):

```
ASGN:DOC
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION

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ASGN:DOC-C

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.

2. FORMAT

```
ASGN:DOC,TG=a,RESP=b[,CNTL=c];
```

3. EXPLANATION OF MESSAGE

a = CCS trunk group number. Must be a one-way outgoing or a two-way trunk group.

b = Response category. These categories designated 'A' through 'F' along with traffic type and level of DOC received determine the percentage of calls on which to apply DOC. Traffic type can be either hard-to-reach (HTR) or non-HTR.

DOC Response Category

DOC LEVEL RECEIVED	TRAFFIC TYPE	RESPONSE CATEGORY A	B	C	D	E	F
DOC1	Alternate route to non-HTR	0%	0%	75%	0%	0%	100%
	Direct route to non-HTR	0%	0%	50%	0%	0%	0%
	Alternate route to HTR	0%	0%	100%	100%	100%	100%
	Direct route to HTR	0%	0%	50%	0%	100%	100%
DOC2	Alternate route to non-HTR	0%	0%	75%	100%	100%	100%
	Direct route to non-HTR	0%	0%	75%	0%	75%	75%
	Alternate route to HTR	100%	100%	100%	100%	100%	100%
	Direct route to HTR	0%	100%	100%	100%	100%	100%
DOC3	All traffic	100%	100%	100%	100%	100%	100%

For example, the office receives a DOC2 level. If the user assigns DOC and the response category chosen is E, DOC will be applied to 100% of the alternate route non-HTR traffic, 75% of the direct route non-HTR traffic, 100% of the alternate route HTR traffic and 100% of the direct route HTR traffic.

c = Control action. Valid value(s):
CANT = DOC CANT control.
SKIP = DOC SKIP control.

4. SYSTEM RESPONSE

NG = No good. May also include:

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– `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the ASGN:DOC output message.

`RL` = Retry later. May also include:
– `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:DOC
OP:DOC
```

Output Message(s):

```
ASGN:DOC
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION

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ASGN:DPSCH

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Assigns trunk groups to the network management (NM) schedule (SCH). This teletypewriter (TTY) message is only valid for defense switched network (DSN) switches. This message also has options to permit the display of trunk groups in the TRUNK block of the DSN exception page. Each trunk group displayed in the TRUNK block has three indicators associated with it, the level of maintenance usage of the trunk group, the number of attempts per circuit per hour (ACH) of the trunk group, and the level of connections per circuit per hour (CCH).

2. FORMAT

```
ASGN:DPSCH,TG=a[-a][-a][-a][-a][-a][-a][-a][,ROW=b][,COL=c];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number.

`b` = Row number of the TRUNK block in the DSN exception page. Zero is the default.

`c` = Column number of the TRUNK block in the DSN exception page. Zero is the default.

There are 24 display boxes in the TRUNK block with six boxes per row and four boxes per column. A particular display is identified by its row number and column number.

If neither row number nor column number is entered, one to eight trunk groups may be specified. These trunk groups will be added only to the schedule list. These trunk groups are not displayed in the TRUNK block. If only column number is entered, up to four trunk groups may be specified. These trunk groups are displayed on the designated column from top to bottom. The row defaults to 1 in the TRUNK block.

If only row number is entered, up to six trunk groups may be specified. The specified trunk groups are displayed on the designated row from left to right. The column defaults to 1 in the TRUNK block.

If both row and column numbers are entered, only one trunk group may be specified and it will be displayed in the designated box. If row=0 and col=0 is specified, the trunk group is only added to the schedule list. This trunk group is not displayed in the TRUNK block.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ASGN:DPSCH output message.

`NG` = No good. May also include:
- `INVALID PARAMETER` = Column/row number not in valid range.
- `TOO MANY TGs` = Too many trunk groups are specified for the give column/row number. (Refer to variable '`c`' for maximum number of trunk groups allowed for a column/row).

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`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:NMSCH
CLR:TRKDP
OP:NMSCH
OP:NMTHD
SET:NMTHD
```

Output Message(s):

```
ASGN:DPSCH
```

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

130 (DSN EXCEPTION)
109 (OVERLOAD)

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ASGN:MHTR

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a destination specified by code and/or carrier be assigned to the manual hard-to-reach (MHTR) list.

NOTE: For the *AUTOPLEX®* application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
ASGN:MHTR,{CODE=a[,CARR=b]|CARR=b};
```

3. EXPLANATION OF MESSAGE

`a` = Destination code (1 to 10 digits). (Valid character set 0-9); The string is typically of the form NPANXXX where NPA is the area code, NXX is the office code and X is the first of the last four digits of the number. Any of the leftmost subsets, however, can be entered (such as, the area code, the area code followed by one digit of the office code NPAN, and so forth.).

NOTE: The code could be a full destination code or any left-most subset thereof.

`b` = The feature group D carrier (0 - 9999).

4. SYSTEM RESPONSE

`NG` = Not good. Valid value(s):
- `FEATURE NOT AVAILABLE` = The hard-to-reach feature is not available.

`PF` = Printout follows. Followed by the ASGN:MHTR output message.

`RL` = Retry later. Valid value(s):
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:MHTR
OP:HTR
```

Output Message(s):

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```
ASGN:MHTR
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION

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ASGN:NMNODES

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that node identifiers be assigned to the network management node schedule (NMNODES) for the collection of five-minute node-to-node data. This request is for the five-minute package LNNODE. A node is identified by a common language location identifier (CLLI) code and the voice/data indicator.

2. FORMAT

```
ASGN:NMNODES,NODES=a-b[-a-b][-a-b][-a-b];
```

3. EXPLANATION OF MESSAGE

`a` = CLLI code.

`b` = Voice/data indicator. Valid value(s):
- `V` = Voice indicator.
- `D` = Data indicator.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ASGN:NMNODES output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:NMNODES
OP:NMNODES
```

Output Message(s):

```
ASGN:NMNODES
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-190-115 *Local and Toll System Features*

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MCC Display Page(s):

130 (NM EXCEPTION)

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ASGN:NMSCH

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that trunk groups be assigned to the network management (NM) schedule (SCH). The NM schedule is a list of trunk groups of interest to network managers.

2. FORMAT

```
ASGN:NMSCH,TG=a[-a][-a][-a][-a][-a][-a][-a];
```

3. EXPLANATION OF MESSAGE

`a` = Valid trunk group number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ASGN:NMSCH output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

`CLR:NMSCH`
`OP:NMSCH`

Output Message(s):

`ASGN:NMSCH`

Other Manual(s):
235-190-101 *Business and Residence Modular Features*

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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ASGN:SILC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk group be assigned to selective incoming load control (SILC) treatment.

NOTE: For the *Autoplex™* application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
ASGN:SILC,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Valid trunk group number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ASGN:SILC output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:SILC
OP:SILC
```

Output Message(s):

```
ASGN:SILC
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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ASGN:SSTR

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a service selective trunk reservation (SSTR) control be assigned to a specified trunk group.

2. FORMAT

```
ASGN:SSTR,TG=a[,RL=b][,INH=c];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number. Must be a one-way outgoing or a two-way trunk group. The LN TYPE attribute for the TG in the RC/V view 5.1 (TRUNK GROUP) must not be NULL.

`b` = Reservation level (RL). The number of circuits to be reserved in the specified trunk group (1 - 15, default 1). RL must be assigned with a value 1 <= RL < RL2 < RL1 <= 15. RL1 and RL2 are the reservation levels possibly assigned by any ASGN:TR input message for this trunk group.

`c` = Control status. Valid value(s):
- `N` = The control will be in effect (default).
- `Y` = Inhibit (INH) control until allowed by the ALW:SSTR input message.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ASGN:SSTR output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ALW:SSTR
ASGN:TR
CLR:SSTR
CLR:SSTROVRD
INH:SSTR
OP:SSTR
OP:TR
SET:SSTROVRD
```

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Output Message(s):

```
ASGN:SSTR
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

RC/V View(s):

5.1 (TRUNK GROUP)

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ASGN:TESTSET

Software Release: 5E15 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the wireless test set will be assigned to an *Air Extension*[SM] user's analog line so that the maintenance personnel can test an user's wireless service without requiring the user's handset phone. After the test set is assigned to an user's analog line it will act just like the handset (wireless phone).

2. FORMAT

```
ASGN:TESTSET,TSDN=a,USERDN=b{,TIME=c,d}{,UCL};
```

3. EXPLANATION OF MESSAGE

`a` = 10 digit DN of the test set to be used.

`b` = 10 digit DN of the analog phone to be tested.

`c` = Length of time the test set is to be assigned in hours (default is 1 hour).

`d` = Minutes.

4. SYSTEM RESPONSE

`RL` = Retry later. The request has been denied, probably due to system load.

`PF` = Printout follows. The request has been accepted and is followed by an ASGN:TESTSET output message.

5. REFERENCES

Output Message(s):

```
ASGN:TESTSET
OP:TESTSET
```

Other Manual(s):
230-701-100 *Air Extension*[SM] *Reference Guide*
235-701-120 *Air Extension*[SM] *User Guide*

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ASGN:TR-A

Software Release: 5E15 only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk reservation (TR) control be assigned to a specified trunk group.

NOTE: For the *Autoplex®* application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
ASGN:TR,TG=a,{RL1=b[,RL2=c]|RL2=c},RESP=d[,CNTL=e][,ARA=f]
[,INH=g];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number. Must be a one-way outgoing or a two-way trunk group.

`b` = Reservation level 1 (RL1). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

`c` = Reservation level 2 (RL2). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

NOTE: At least one reservation level (RL1 or RL2) must be non-zero. If both are non-zero, then RL1 must be greater than RL2. If an SSTR control has been assigned for TG '`a`' by an ASGN:SSTR input message, RL1 and RL2 must be assigned with a value 1 <= RL < RL2 < RL1 <= 65534. RL is the reservation level possibly assigned by any ASGN:SSTR input message for this trunk group.

`d` = Response category (RESP). These categories, designated 'A' through 'E', along with the reservation level triggered determine the percentage of calls to control.

RESERVATION LEVEL	TRAFFIC	RESPONSE CATEGORY TYPE				
		A	B	C	D	E
RL1	Alternate route	0%	0%	0%	100%	0%
	Direct route	0%	0%	0%	0%	0%
RL2	Alternate route	0%	100%	100%	100%	0%
	Direct route	0%	0%	0%	100%	0%

NOTE: For example, if the RL2 reservation level is triggered and the response category chosen is 'C', TR will be applied to 100% of the alternate route traffic and 0% of the direct route traffic.

`e` = Control (CNTL) action. Valid value(s):

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CANT = TR cancel-to control (default).

SKIP = TR skip control.

f = Automatic reservation adjustment (ARA) status. Valid value(s):
N = ARA is not in effect (default).
Y = ARA is in effect.

NOTE: If ARA is 'Y', then RL1 and RL2 must be specified as non-zero.

g = Control status. Valid value(s):
N = The control will be in effect (default).
Y = Inhibit control until allowed by the ALW:TR input message.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ASGN:TR output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ALW:TR
ASGN:SSTR
CLR:TR
CLR:TROVRD
INH:TR
OP:TR
SET:TROVRD

Output Message(s):

ASGN:SSTR
ASGN:TR

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

NM EXCEPTION

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ASGN:TR-B

Software Release: 5E16(1) only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk reservation (TR) control be assigned to a specified trunk group.

2. FORMAT

```
ASGN:TR,TG=a,{RL1=b[,RL2=c]|RL2=c},RESP=d[,CNTL=e][,ARA=f]
[,INH=g];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number. Must be a one-way outgoing or a two-way trunk group.

`b` = Reservation level 1 (RL1). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

`c` = Reservation level 2 (RL2). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

NOTE: At least one reservation level (RL1 or RL2) must be non-zero. If both are non-zero, then RL1 must be greater than RL2. If an SSTR control has been assigned for TG '`a`' by an ASGN:SSTR input message, RL1 and RL2 must be assigned with a value 1 <= RL < RL2 < RL1 <= 65534. RL is the reservation level possibly assigned by any ASGN:SSTR input message for this trunk group.

`d` = Response category (RESP). These categories, designated 'A' through 'E', along with the reservation level triggered determine the percentage of calls to control.

TR Response Category

RESERVATION LEVEL	TRAFFIC	RESPONSE CATEGORY TYPE				
		A	B	C	D	E
RL1	Alternate route	0%	0%	0%	100%	0%
	Direct route	0%	0%	0%	0%	0%
RL2	Alternate route	0%	100%	100%	100%	0%
	Direct route	0%	0%	0%	100%	0%

For example, if the RL2 reservation level is triggered and the response category chosen is 'C', TR will be applied to 100% of the alternate route traffic and 0% of the direct route traffic.

`e` = Control (CNTL) action. Valid value(s):
`CANT` = TR cancel-to control (default).
`SKIP` = TR skip control.

`f` = Automatic reservation adjustment (ARA) status. Valid value(s):

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N = ARA is not in effect (default).
Y = ARA is in effect. RL1 and RL2 must be specified as non-zero.

g = Control status. Valid value(s):
N = The control will be in effect (default).
Y = Inhibit control until allowed by the ALW:TR input message.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ASGN:TR output message.

RL = Retry later. May also include:
– RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ALW:TR
ASGN:SSTR
CLR:TR
CLR:TROVRD
INH:TR
OP:TR
SET:TROVRD
```

Output Message(s):

```
ASGN:SSTR
ASGN:TR
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION

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ASGN:TR-C

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk reservation (TR) control be assigned to a specified trunk group.

2. FORMAT

```
ASGN:TR,TG=a,{RL1=b[,RL2=c]|RL2=c},RESP=d[,CNTL=e][,ARA=f][,INH=g];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number. Must be a one-way outgoing or a two-way trunk group.

`b` = Reservation level 1 (RL1). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

`c` = Reservation level 2 (RL2). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

NOTE: At least one reservation level (RL1 or RL2) must be non-zero. If both are non-zero, then RL1 must be greater than RL2. If an SSTR control has been assigned for TG '`a`' by an ASGN:SSTR input message, RL1 and RL2 must be assigned with a value 1 ≤ RL < RL2 < RL1 ≤ 65534. RL is the reservation level possibly assigned by any ASGN:SSTR input message for this trunk group.

`d` = Response category (RESP). These categories, designated 'A' through 'E', along with the reservation level triggered determine the percentage of calls to control. Traffic types can be either hard-to-reach (HTR) or non-HTR.

TR Response Category						
RESERVATION LEVEL	**TRAFFIC TYPE**	**RESPONSE CATEGORY**				
		A	**B**	**C**	**D**	**E**
RL1	Alternate route to non-HTR	0%	0%	0%	100%	0%
	Direct route to non-HTR	0%	0%	0%	0%	0%
	Alternate route to HTR	100%	100%	100%	100%	100%
	Direct route to HTR	0%	0%	75%	0%	75%
RL2	Alternate route to non-HTR	0%	100%	100%	100%	0%
	Direct route to non-HTR	0%	0%	0%	100%	0%
	Alternate route to HTR	100%	100%	100%	100%	100%
	Direct route to HTR	75%	0%	75%	100%	87.5%

For example, if the RL2 reservation level is triggered and the response category chosen is 'C',

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TR will be applied to 100% of the alternate route non-HTR traffic, 0% of the direct route non-HTR traffic, 100% of the alternate route HTR traffic and 75% of the direct route HTR traffic.

`e` = Control (CNTL) action. Valid value(s):
`CANT` = TR cancel-to control (default).
`SKIP` = TR skip control.

`f` = Automatic reservation adjustment (ARA) status. Valid value(s):
`N` = ARA is not in effect (default).
`Y` = ARA is in effect. RL1 and RL2 must be specified as non-zero.

`g` = Control status. Valid value(s):
`N` = The control will be in effect (default).
`Y` = Inhibit control until allowed by the ALW:TR input message.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ASGN:TR output message.

`RL` = Retry later. May also include:
– `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ALW:TR
ASGN:SSTR
CLR:TR
CLR:TROVRD
INH:TR
OP:TR
SET:TROVRD
```

Output Message(s):

```
ASGN:SSTR
ASGN:TR
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION

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12. AUD

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AUD:0

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

To verify the dynamic data of an application audit. Refer to the Audits manual for specific information.

2. FORMAT

```
AUD:[a],[SM=b[&&c]][ENV=d][CMP=e];
```

3. EXPLANATION OF MESSAGE

`a` = Audit name. Refer to the Audits manual for specific information.

`b` = Switching module (SM) number or beginning of the range of numbers.

`c` = End of the range of SM numbers.

`d` = Kernel process. Valid value(s):
`OKP` = Operational.
`SMKP` = Switch maintenance.

`e` = Communication module processor (CMP) number.

4. SYSTEM RESPONSE

Refer to Table 2-1 in the Input Messages User Guidelines.

5. REFERENCES

IM/OM References:

None.

Other Manual(s):
235-600-400 *Audits*

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AUD:CMP

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a communication module processor (CMP) audit to be run in one CMP.

2. FORMAT

```
AUD:a,CMP=b[,PRIM|,MATE];
```

3. EXPLANATION OF MESSAGE

`a` = Audit ID for an application audit.

`b` = CMP number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `AUDIT NOT AVAILABLE IN CMP` = The request has been denied because the specified audit does not exist in the specified processor type.
- `INVALID REQUEST FOR INTERPROCESSOR AUDIT` = The requested audit is not valid on the specified processor.
- `UNAVAILABLE OR INVALID CMP` = The specified CMP is unavailable or does not exist.

`PF` = Printout follows. The request has been received. One or more of the following audit output messages are printed: AUD:CMP-ABORTED, AUD:CMP-COMPL, AUD:CMP-DUMP, AUD:CMP-ERROR, and AUD:CMP-FAILURE.

5. REFERENCES

Output Message(s):

```
AUD:CMP-ABORTED
AUD:CMP-COMPL
AUD:CMP-DUMP
AUD:CMP-ERROR
AUD:CMP-FAILURE
```

Other Manual(s):
235-600-400 *Audits*

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AUD:CNC

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the central node control (CNC) audit be initiated. Internal ring node maintenance records are audited for inconsistencies which could prevent jobs (such as RST:LN) from progressing or cause jobs to be aborted unnecessarily. (This audit is also executed automatically.)

2. FORMAT

```
AUD:CNC=1[:{a|b|a,b}];
```

3. EXPLANATION OF MESSAGE

Routine execution of this audit may be inhibited by *UNIX*® RTR Operating System Administration Module (AM) during outages of the interprocess message switch (IMS) subsystem. This can be checked by using the OP:AUD input message and routine execution can be resumed by using the ALW:AUD input message.

`a` = Specifies whether the audit should correct errors. Valid value(s):
- `CORR` = Correction should occur (default).
- `NCG` = Inhibit error correction.

`b` = Specifies the level of detail of error reporting. Valid value(s):
- `DETL` = Generate a raw data report for each error found (default).
- `SUM` = Generate only an audit completion message when the audit terminates.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Message(s):

```
ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR
STOP:AUD
```

Other Manual(s):
235-600-400 *Audits*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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AUD:CUMEM

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the standby control unit memory (CUMEM) 1 audit be run in the standby control unit (CU), comparing the contents of the online and off-line main stores when in the ACT/ACT or ACT/STBY modes.

WARNING: This audit can take more than 180 minutes to run and can degrade the performance of other *UNIX*® RTR system audits. Excessive audit errors may result in a hardware reconfiguration with one CU being left out-of-service.

2. FORMAT

```
AUD:CUMEM=1 [:a|:b|:a,b];
```

3. EXPLANATION OF MESSAGE

`a` = Indicates whether audit should correct errors. Valid value(s):

- `CORR` = Audit should correct errors (default).
- `NCG` = Audit does not correct errors.

`b` = Indicates what type of report or message to generate. Valid value(s):

- `DETL` = Generate a raw data report for each error found followed by an audit completion message. (Default). (A limited number of reports is generated.)
- `SUM` = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

Input Message(s):

```
OP:AUD
RST:CU
STOP:AUD
STP:AUD
```

Output Message(s):

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```
AUD:CUMEM
OP:AUD
OP:OOS
```

Input Appendix(es):

```
APP:AUD
```

Other Manual(s):
235-600-400 *Audits*

AUD:CUSTAT

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the control unit hardware status (CUSTAT) audit be run in the manual mode.

WARNING: Excessive audit errors may result in a hardware reconfiguration with one control unit (CU) being left out-of-service.

2. FORMAT

```
AUD:CUSTAT=1[:a|:b|:a,b];
```

3. EXPLANATION OF MESSAGE

`a` = Indicates whether audit should correct errors. Valid value(s):

- `CORR` = Audit should correct errors (default).
- `NCG` = Audit does not correct errors.

`b` = Indicates what type of report or message to generate. Valid value(s):

- `DETL` = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- `SUM` = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

Input Message(s):

```
OP:AUD
STOP:AUD
STP:AUD
```

Input Appendix(es):

```
APP:AUD
```

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Output Message(s):

```
AUD:CUSTAT
OP:AUD
```

Other Manual(s):
235-600-400 *Audits*

AUD:ECD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the equipment configuration database (ECD) be audited.

Format 1 audits the incore ECD. Format 2 runs a structural audit of the minimum configuration ECD. Format 3 runs a structural audit of the full configuration ECD.

WARNING: Running ECD audit 1 or 3; while diagnostics are running can result in mutilation of database records.

2. FORMAT

```
[1]    AUD:ECD=a[:b|:c|:b,c];

[2]    AUD:ECD=2,INS="ecd"[:b|:c|:b,c];

[3]    AUD:ECD=2,INS="appecd"[:b|:c|:b,c];
```

3. EXPLANATION OF MESSAGE

`a` = Specifies the type of incore ECD audit. Valid value(s):
- `1` = Structural audit.
- `3` = Raw data audit.

`b` = Indicates whether audit should correct errors. Valid value(s):
- `CORR` = Audit should correct errors (default).
- `NCG` = Audit does not correct errors.

`c` = Indicates what type of report or message to generate. Valid value(s):
- `DETL` = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- `SUM` = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

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Input Message(s):

```
OP:AUD
STOP:AUD
STP:AUD
```

Input Appendix(es):

```
APP:AUD
```

Output Message(s):

```
AUD:ECD
OP:AUD
```

Other Manual(s):
235-600-400 *Audits*

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AUD:ECDOWN

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the equipment configuration database manager (ECDMAN) audit of record ownership be run. This audit releases reserved records for processes that have died.

2. FORMAT

```
AUD:ECDOWN=1[:a|:b|:a,b];
```

3. EXPLANATION OF MESSAGE

`a` = Indicates whether audit should correct errors. Valid value(s):

- `CORR` = Audit should correct errors (default).
- `NCG` = Audit does not correct errors.

`b` = Indicates what type of report or message to generate. Valid value(s):

- `DETL` = Generate a raw data report for each error found followed by an audit completion message. (default). (A limited number of reports is generated.)
- `SUM` = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

Input Message(s):

```
OP:AUD
STOP:AUD
STP:AUD
```

Output Message(s):

```
AUD:ECDOWN
OP:AUD
```

Input Appendix(es):

```
APP:AUD
```

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Other Manual(s):
235-600-400 *Audits*

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AUD:ENV

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a kernel process environment (OKP or SMKP) audit to be run in the administrative module.

2. FORMAT

```
AUD:a,ENV=b;
```

3. EXPLANATION OF MESSAGE

`a` = Audit ID for an application audit.

`b` = Kernel process. Valid value(s):
- `OKP` = Operational.
- `SMKP` = Switch maintenance.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `AUDIT NOT AVAILABLE IN SPECIFIED ENV` = The request has been denied because the specified audit is not available in the requested kernel process.
- `AUDIT NOT AVAILABLE IN SPECIFIED ENV=SMKP` = The request has been denied because the specified audit is not available in the requested kernel process. Specifically, ENV=SMKP audits are not available in the very compact digital exchange (VCDX) application.
- `SM TYPE NOT VALID FOR THIS REQUEST` = The request has been denied because an SM type was specified for a kernel process environment.

`PF` = Printout follows. The AUD:ENV-COMPL output message follows. One or more of the following output messages may also be printed: AUD:ENV-ABORTED, AUD:ENV-DUMP, AUD:ENV-ERROR, AUD:ENV-FAILURE.

5. REFERENCES

Output Message(s):

```
AUD:ENV-ABORTED
AUD:ENV-COMPL
AUD:ENV-DUMP
AUD:ENV-ERROR
AUD:ENV-FAILURE
```

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Other Manual(s):
235-600-400 *Audits*

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AUD:FILES

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a simple existence audit of files on the disks be run.

WARNING: This message is intended to be used as an aid for filesystem maintenance. Improper corrective action could result in missing system files which could lead to system degradation and/or loss of call processing.

2. FORMAT

```
AUD:FILES;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the AUD:FILES output message.

5. REFERENCES

Output Message(s):

`AUD:FILES`

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AUD:FMGR

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the resources of the file manager (FMGR) be audited.

2. FORMAT

```
AUD:FMGR=a[:b|:c|:b,c];
```

3. EXPLANATION OF MESSAGE

`a` = Specifies the member number of the FMGR audit. Valid value(s):

- `1` = Task queue audit.
- `2` = Internal inode table audit.
- `3` = Hash table and internal inode pointer table audit.
- `4` = File table audit.
- `5` = Internal capability table audit.
- `6` = Buffer audit.
- `7` = Mount table audit.
- `8` = Delayed queue audit.
- `9` = Message queue audit.

`b` = Indicates whether audit should correct errors. Valid value(s):

- `CORR` = Audit should correct errors (default).
- `NCG` = Audit does not correct errors.

`c` = Indicates what type of report or messages should be generated. Valid value(s):

- `DETL` = Generate a raw data report for each error found followed by an audit completion message. (Default). (A limited number of reports is generated.)
- `SUM` = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
OP:AUD
STOP:AUD
STP:AUD
```

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Output Message(s):

```
AUD:FMGR1
AUD:FMGR2
AUD:FMGR3
AUD:FMGR4
AUD:FMGR5
AUD:FMGR6
AUD:FMGR7
AUD:FMGR8
AUD:FMGR9
OP:AUD
```

Input Appendix(es):

```
APP:AUD
```

Other Manual(s):
235-600-400 *Audits*

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AUD:FSBLK

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the file system block audit be run. This audit can be run on a mounted or unmounted file system.

2. FORMAT

```
AUD:FSBLK=a,INS="b"[:c|:d|:c,d][PARAM="e"];
```

3. EXPLANATION OF MESSAGE

`a` = Member number to be audited.

NOTE: The value input for '`a`' is dependent upon the instance. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual.

`b` = Instance to be audited. Instance names are the special device files corresponding to the file system audited. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual for a complete list of device file names.

`c` = Audit action. Valid value(s):

- `CORR` = Audit should correct errors.
- `NCG` = Audit does not correct errors (default).

`d` = Type of report. Valid value(s):

- `DETL` = Generate a detailed raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- `SUM` = Generate only a summary audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

`e` = Backup parameter. This field is used to check the file system for the appropriateness of generating a backup tape. When specified, the audit may report error conditions that, normally, would not be considered errors, but could result in the creation of an improper backup tape. These errors are not correctable.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

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```
AUD:FSLINK
OP:AUD
OP:FNAME
STOP:AUD
STP:AUD
```

Output Message(s):

```
AUD:FSBLK
OP:AUD
```

Input Appendix(es):

```
APP:AUD
APP:AUD-SDF
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-600-400 *Audits*

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AUD:FSCMPT

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the file system compaction audit be run. This audit can be run on a mounted or unmounted file system.

2. FORMAT

```
AUD:FSCMPT=a,INS "b"[:c|:d|:c,d][:PARAM "{e|f|e,f}"];
```

3. EXPLANATION OF MESSAGE

`a` = Member number of the FSCMPT audit. Valid value(s):
- `1` = The administrative module (AM) audit member number.

`b` = Instance to be audited. Instance names are the special device files corresponding to the file system audited. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual for specific device file names.

`c` = Audit action. Valid value(s):
- `CORR` = Audit should correct errors, and complete the compaction (default).
- `NCG` = Audit should not correct errors, and should not do the compaction.

`d` = Type of report. Valid value(s):
- `DETL` = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- `SUM` = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

`e` = Type of effort compaction. Valid value(s):
- `MIN` = Perform or report for a minimum effort compaction (default).
- `MAX` = Perform or report for a maximum effort compaction.

`f` = Amount of regular file blocks to be relocated. Valid value(s):
- `COND` = Limit number of regular file blocks relocated to achieve compaction (default).
- `UCL` = An unlimited number of regular file blocks may be relocated to achieve compaction.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
AUD:FSBLK
AUD:FSLINK
OP:AUD
OP:FNAME
```

Input Appendix(es):

```
APP:AUD
APP:AUD-SDF
```

Output Message(s):

```
AUD:FSCMPT
OP:AUD
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-600-400 *Audits*

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AUD:FSLINK

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the file system link audit be run. This audit can be run on a mounted or unmounted file system.

2. FORMAT

```
AUD:FSLINK=a,INS="b"[:c|:d|:c,d][:PARAM="e"];
```

3. EXPLANATION OF MESSAGE

`a` = Member number to be audited.

NOTE: The value input for '`a`' is dependent upon the instance. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual.

`b` = Instance to be audited. Instance names are the special device files corresponding to the file system audited. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual for a complete list of special device file names.

`c` = Audit action. Valid value(s):

`CORR`	= Audit should correct errors.
`NCG`	= Audit does not correct errors (default).

`d` = Type of report. Valid value(s):

`DETL`	= Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
`SUM`	= Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

`e` = BACKUP parameter. This field is used to check the file system for the appropriateness of generating a backup tape. When specified, the audit may report error conditions that, normally, would not be considered errors, but could result in the creation of an improper backup tape. These errors are not correctable.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

`AUD:FSBLK`
`OP:AUD`

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```
OP:FNAME
STOP:AUD
STP:AUD
```

Output Message(s):

```
AUD:FSLINK
OP:AUD
```

Input Appendix(es):

```
APP:AUD
APP:AUD-SDF
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-600-400 *Audits*

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AUD:LKBDST

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,CNI
Type: Input

1. PURPOSE

To initiate the link status and band status audit. This audit compares link status data and band-related status data in the link node and in the administrative module (AM) with associated reference data in the AM. When requested without specifying a particular node or the ALL option, the system will select a single node to be audited. The node selected will be the next node in the routine audit sequence.

NOTE: Routine execution of this audit may be inhibited by the *UNIX*® RTR system during outages of the common network interface (CNI) subsystem. This may be verified using the OP:AUD input message. Routine execution may be resumed by using the ALW:AUD input message.

2. FORMAT

```
AUD:LKBDST=1[:a][:PARAM="NODE{ ALL|(b,c)}"];
```

3. EXPLANATION OF MESSAGE

`ALL` = Audit all nodes. If a particular node is desired, use the group-member number designation.

`a` = Level of detail of error reporting. Valid value(s):
- `DETL` = Generate a raw data report for each error found. This is the default value.
- `SUM` = Generate only an audit completion message when the audit terminates.

`b` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the AUD:ENV-LKBDST output message.

5. REFERENCES

Input Message(s):

```
ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR
STOP:AUD
```

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Output Message(s):

```
AUD:ENV-LKBDST
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-600-400 *Audits*
235-190-120 *Common Channel Signaling Features*

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AUD:MMGR

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the memory manager audits be run. The first three audits validate the segment descriptor table, page tables and the page descriptor table, and recover lost pages and page tables. The segment release audit completes an interrupted segment breakdown procedure. The segment unlock audit releases old iolocked segments.

2. FORMAT

```
AUD:MMGR=a[:b|:c|:b,c];
```

3. EXPLANATION OF MESSAGE

`a` = Member number of the audit. Valid value(s):

`1`	= Segment descriptor table audit.
`2`	= Page table audit.
`3`	= Page descriptor table audit.
`4`	= Segment release audit.
`5`	= Segment unlock audit.
`9`	= Swap space compaction audit.

`b` = Audit action. Valid value(s):

`CORR`	= Audit should correct errors (default).
`NCG`	= Audit does not correct errors.

`c` = Type of report. Valid value(s):

`DETL`	= Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
`SUM`	= Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
OP:AUD
STOP:AUD
STP:AUD
```

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Output Message(s):

```
AUD:MMGR
OP:AUD
```

Input Appendix(es):

```
APP:AUD
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*
235-600-400 *Audits*

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AUD:MSGBUF

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the message buffer (MSGBUF) resources be audited.

2. FORMAT

```
AUD:MSGBUF=a[:b|:c|:b,c];
```

3. EXPLANATION OF MESSAGE

`a` = Member number of the audit. Valid value(s):
- `1` = Message buffer queue audit.
- `2` = Message buffer extender block audit.

`b` = Audit action. Valid value(s):
- `CORR` = Audit should correct errors (default).
- `NCG` = Audit does not correct errors.

`c` = Type of report. Valid value(s):
- `DETL` = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- `SUM` = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
OP:AUD
STOP:AUD
STP:AUD
```

Output Message(s):

```
AUD:MSGBUF
OP:AUD
REPT:KAUDPRC
```

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Input Appendix(es):

```
APP:AUD
```

Other Manual(s):
235-600-400 *Audits*

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AUD:NIDATA

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the internal data audits be run on the recent changeable tables. These audits compare data table copies stored on disk with copies of the same tables residing in memory in the administrative module (AM) and report any mismatches. Tables are also checked for invalid data within tables and for inconsistencies across tables. Errors that cannot be corrected using recent change will be corrected by the audit mechanism.

2. FORMAT

```
AUD:NIDATA=a[:DETL|:SUM];
```

3. EXPLANATION OF MESSAGE

`DETL` = Generate a raw data report for each error found. (Only a limited number of such reports can be generated.)

`SUM` = Generate an audit completion message when the audit terminates. Do not create raw data reports for any errors that are found.

`a` = The type of data table to be audited. Valid value(s):

- `1` = Office identification data.
- `2` = Link configuration data.
- `3` = Logical-physical translation data.
- `4` = Common channel signaling system 7 (CCS7) routing data.
- `5` = Subsystem information data.
- `8` = Global title translator data.

  NOTE: NIDATA8 has a special trigger mechanism. This audit does not run until after a common network interface (CNI) recent change/verify (RC/V) of screen 15.11 in any mode (I,U,D,R). Any message received before a RC/V transaction is invalid.
- `10` = Protocol timers/parameters data

4. SYSTEM RESPONSE

`PF` = Printout follows. The AUD:NIDATA output message follows.

5. REFERENCES

Input Message(s):

```
ALW:AUD
INH:AUD
```

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```
OP:AUD
OP:AUDERR
STOP:AUD
```

Output Message(s):

```
AUD:ENV-NIDATA01
AUD:ENV-NIDATA02
AUD:ENV-NIDATA03
AUD:ENV-NIDATA04
AUD:ENV-NIDATA05
AUD:ENV-NIDATA08
AUD:ENV-NIDATA10
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*
235-600-400 *Audits Manual*

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AUD:NMDATA

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

NMDATA is the audit family name for the group of audits concerned with the integrity of network management dynamic data.

NMDATA 1 audits the routing tables. The routing tables consist of the network table, cluster table, page access table, the member table, the link set translation table, the routing priority index (RPI) status table, and the director index to network table. One aspect of the routing tables structure is the dynamic allocation and deallocation of slots in the page access table and the member table (those tables are also referred to as the paging tables) as different network events (such as remote link failures or congestion) occur. Common network interface (CNI) processes and maintains status information for the point code affected by those events. Those paging tables that are used in the allocation/deallocation of slots are audited to ensure that pointers connecting the tables are valid. The free entries for the paging tables are audited as well as the used entries. The fields in the routing tables that are used when routing or updating status information about a point code are also audited by NMDATA 1. The audit looks at inconsistencies between the different fields and among the different routing tables. A copy of the data being audited is also found in the direct link node (DLN). When changes are made to the administrative module (AM) master copy as a result of error correction, the remote node copy is updated by using REMACS.

NOTE: The application is not notified of the change to the data as a result of error correction. For this reason, it is recommended that NMDATA 1 always runs in error detection mode only.

NMDATA 2 audits the loadshare tables in the AM. The loadshare tables are used for message routing in the direct link node (DLN), the D-channel node (DCHN) and the AM. The copy of the loadshare tables in the AM is the master copy and the remote nodes are updated using REMACS if error correction results in any changes to the master copy.

NOTE: NMDATA 2 is different than NMDATA 1 in that a loadshare table update report will be sent to the application if error correction results in any changes to the master copy of the tables.

WARNING: CNI does not recommend running this audit in error correction mode. Error correction mode should only be used under the guidance of CNI customer support because of the critical nature of the data being audited. CNI customer support should always be notified in the event of an error.

2. FORMAT

```
AUD:NMDATA={a[:b|:c|:b,c];}
```

3. EXPLANATION OF MESSAGE

`a` = Specifies the audit member to be run. Valid value(s):
`1` = Routing tables linked list and consistency check audit.

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2 = Loadshare tables audit.

b = Audit action. Valid value(s):
CORR = Indicates error-correction mode.
NCG = Indicates error-detection mode.

The default value is contained within the equipment configuration database (ECD) record for this audit (audrec).

c = Type of report. Valid value(s):
DETL = Indicates a raw data report for each error found should be generated (default). The raw data report(s) are followed by an audit completion message. A limited number of reports is generated.
SUM = Indicates only an audit completion message is generated when the audit terminates and in that case raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the AUD:NMDATA output message.

5. REFERENCES

Input Message(s):

```
ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR
STOP:AUD
```

Output Message(s):

```
AUD:ENV-NMDATA1
AUD:ENV-NMDATA2
```

Other Manual(s):
235-600-400 *Audits*

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AUD:NODEST

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that ring node (RN) state audits be initiated.

The node availability map audit compares the two principal records within the Interface Module System (IMS) driver process of the states of ring nodes. It does not check the major state in the equipment configuration data base (ECD). This map contains a flag for each ring node indicating whether the node is an IMS user node (IUN) in the active (ACT) state. It is used primarily by the neighboring "audit" and to send state updates after changes in ring configuration and after initializations. The audit compares the map to the major states of the nodes recorded in the IMS driver process. When errors are detected the map is corrected to agree with the major states. Routine execution of these audits may be inhibited by *UNIX*® RTR during outages of the IMS subsystem. This can be checked by using the OP:AUD input message and routine execution can be resumed by using the ALW:AUD input message.

2. FORMAT

```
AUD:NODEST=1[:{a|b|a,b}];
```

3. EXPLANATION OF MESSAGE

`1` = Audit the node availability map. (This audit is also automatically scheduled.)

`a` = Specifies whether the audit should correct errors. Valid value(s):

`CORR`	= Indicates correction should occur (default).
`NCG`	= Inhibits error correction.

`b` = Specifies the level of detail of error reporting. Valid value(s):

`DETL`	= Generate a raw data report for each error found (default).
`SUM`	= Generate only an audit completion message when the audit terminates.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR
STOP:AUD
```

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Other Manual(s):
235-600-400 *Audits*
235-190-120 *Common Channel Signaling Service Features*

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AUD:PMS

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the plant measurements system (PMS) database audit be run.

2. FORMAT

```
AUD:PMS=1[:a|:b|:a,b];
```

3. EXPLANATION OF MESSAGE

`a` = Audit action. Valid value(s):

`CORR`	= Audit should correct errors (default).
`NCG`	= Audit does not correct errors.

`b` = Type of report. Valid value(s):

`DETL`	= Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
`SUM`	= Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
OP:AUD
STOP:AUD
STP:AUD
```

Output Message(s):

```
AUD:PMS
OP:AUD
```

Input Appendix(es):

```
APP:AUD
```

Other Manual(s):

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235-600-400 *Audits*

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AUD:PROAD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Audits the directly connected trunks (DCT) extended (DCTEXT), searching for suspended process creations (including forks) and terminations. It also searches for processes which have been suspended from execution for over 30 minutes and terminates them.

2. FORMAT

```
AUD:PROAD=1[:a|:b|:a,b];
```

3. EXPLANATION OF MESSAGE

`a` = Audit action. Valid value(s):

- `CORR` = Audit should correct errors (default).
- `NCG` = Audit does not correct errors.

`b` = Type of report. Valid value(s):

- `DETL` = Generate a raw data report for each error found followed by an audit completion message (default). A limited number of reports is generated.
- `SUM` = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
OP:AUD
STOP:AUD
STP:AUD
```

Output Message(s):

```
AUD:PROAD
OP:AUD
```

Input Appendix(es):

```
APP:AUD
```

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Other Manual(s):
235-600-400 *Audits*

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AUD:SM

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a switching module (SM) audit to be run in one SM or a range of SMs.

2. FORMAT

```
AUD:a,SM=b[&&c][,RSM][,LSM][,HSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Audit ID for an application audit.

`b` = SM number, or lower limit of a range of SM numbers.

`c` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `AUDIT NOT AVAILABLE IN SM TYPE` = The request has been denied because the specified audit does not exist in the specified processor type.
- `INVALID SM RANGE/TYPE COMBINATION` = The request has been denied because of incorrect order of specified range or no equipped SMs in range.

`PF` = Printout follows. The request has been received. One or more of the following audit output message(s) are printed: AUD:SM-ABORTED, AUD:SM-COMPLETED, AUD:SM-DUMP, AUD:SM-ERROR, and AUD:SM-FAILURE.

5. REFERENCES

Output Message(s):

```
AUD:SM-ABORTED
AUD:SM-COMPLETED
AUD:SM-DUMP
AUD:SM-ERROR
AUD:SM-FAILURE
```

Other Manual(s):
235-600-400 *Audits*

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13. BKUP

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BKUP:ODD

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests a backup of the office-dependent data (ODD) to disk.

Format 1 requests a backup of the administrative module (AM) ODD, the communications module processor (CMP) ODD, non-redundant ODD (NRODD), redundant ODD (RODD), or the entire system. Format 2 requests to schedule the ODD backup to run periodically at specific intervals.

NOTE: During heavy recent change activity, an ODD backup has a slight chance of aborting because of a lack of resources for the backup to execute. Requesting ODD backup during heavy recent change activity is not recommended because this will affect the ODD backup and recent change performance and response time. If a backup aborts, re-request the ODD backup during a period of light recent change activity.

Failure of ODD backup will cause a minor alarm.

Format 3 requests the ODD backup in preparation for ODD evolution. This message should be entered immediately prior to the final ODD dump and should be used only once during a retrofit or a large terminal growth. This message removes recent change evolution files if they exist, and starts double-logging of recent changes (RCs) and customer originated recent changes (CORCs). Consult the Retrofit Procedures manual or the Large Terminal Growth Procedures manual before using this message.

2. FORMAT

```
[1]    BKUP:ODD[,FULL][,AM][,CMP=0][,NRODD=a[&&b]][,RODD[=a]][,COUNT];

[2]    BKUP:ODD[,FULL][,AM][,CMP=0][,NRODD=a[&&b]][,RODD[=a]],EVERY=c,AT=d;

[3]    BKUP:ODD[,FULL],ODDEVOL,TOGENERIC=e;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`COUNT` = Report the number of kilobytes of ODD backed up.

`FULL` = Back up the entire ODD unconditionally. If FULL is not specified, only those ODD blocks that have been altered since the last ODD backup will be backed up (a differential backup). The AM ODD backup is always a full backup (that is, a differential backup of the AM ODD is not available).

NOTE: The default is the entire system (the AM, the CMP, NRODDs of all SMs and RODD) if none is specified.

`a` = SM number or the lower limit of a range of SM numbers.

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`b` = Upper limit of a range of SM numbers.

`c` = Interval in days (0-90) between successive ODD backup runs.

`d` = Time of day in hours and minutes when ODD is to be backed up.

`e` = Number of the software release to which the ODD is being evolved (for example, 6 for 5E6(1) software release).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID SM RANGE` = The input request is not valid.
- `INVALID CMP RANGE` = The input request is not valid.

`PF` = Printout follows. Request accepted and the BKUP:ODD output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:ODDBKUP
CLR:ODDBKUP
OP:BKUPSTAT
STP:ODDEVOL
```

Output Message(s):

```
BKUP:ODD
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-105-210 *Routine Operations and Maintenance*
235-105-24x *Software Release Retrofit Procedures*
235-105-44x *Large Terminal Growth Procedures*

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BKUP:TRFM

Software Release: 5E16(1) and later
Command Group: TRFM
Application: 5
Type: Input

1. PURPOSE

Requests a backup of the traffic measurements settings to disk.

2. FORMAT

```
BKUP:TRFM[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = If this parameter is given then backup is performed unconditionally. All data in the relation will be removed!

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- Found stored data, remove it or use parameter UCL to override.` = Previously stored data wasn't restored and relation is not empty. Backup will not be performed. To avoid this error use UCL parameter or remove data using the RST:TRFM input message with the `NOCHG` option.

`OK` = Okay. May also include:
`- Process completed successfully` = Backup completed successfully.

5. REFERENCES

Other Manual(s):

235-040-100 *Switch Operations, Administration and Maintenance Planning Guide*

235-070-100 *Administration and Engineering Guidelines*

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14. CFR

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CFR:DUPLEXDISKS

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Configure MHD0 and MHD1 to be the duplex boot disks.

This is only supported on a 3B21D Hardware Platform that is configured to support the recovery from the alternate boot disk feature.

For this to complete successfully, the 3B21D must be booted with an alternate boot disk selected as one of the duplex boot disks and the UCB states of the system and alternate boot disks must meet the following criteria:

- If MHD0 is one of the current duplexed boot disks, its state must be ACT. MHD1 and the alternate boot disk must not be in the ACT, STBY, or INIT states.
- If MHD1 is one of the current duplexed boot disks, its state must be ACT. MHD0 and the alternate boot disk must not be in the ACT, STBY, or INIT states.

2. FORMAT

```
CFR:DUPLEXDISKS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` Printout follows. Followed by the CFR:DUPLEXDISKS output message.

5. REFERENCES

Output Message(s):

```
CFR:DUPLEXDISKS
```

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CFR:PMEM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

This message configures the switching modules (SMs) physical memory after memory board growth to incorporate the memory added into the spare memory hole. The spare memory hole is located after standalone billing memory and before any peripheral images that may be loaded. After growing in physical memory, this input message is used to move the peripheral images into the new memory board and to merge the extra amount of memory into the spare memory hole. The SM will not be able to use the extra memory grown in until this input message is executed.

2. FORMAT

```
CFR:PMEM,SM=a[,REQST={GROW}];
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Request accepted and the CFR:PMEM output message follows.

`RL` = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

```
DUMP:SMMAP
```

Output Message(s):

```
CFR:PMEM
DUMP:SMMAP
```

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CFR:RING

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the common network interface (CNI) ring be configured to include or exclude ring node(s) from the active ring segment, or if the ring is down, to initialize it.

NOTE: Ring reconfigurations abort diagnostics of ring nodes.

Ring configurations established by this request have no special permanence -- they are not remembered as having been requested manually and they do not change the ring interface hardware maintenance states of the nodes. For example, a ring segment isolated by this request and not containing a ring fault may be included back into the active ring segment by any subsequent ring configuration change, such as by a fault recovery, diagnostic, restore or subsequent CFR:RING request. An exception is that nodes in the GROW major state will always be kept isolated to prevent installation from causing ring recoveries.

The ring can not be reconfigured using the INCLUDE or EXCLUDE options if either the current BISO and/or EISO ring node is not active. A ring with an inactive BISO and/or EISO node is in a transient state. Restoration of this node(s) will be given top priority. The MOVFLT option may be used subject to limitations described above.

2. FORMAT

```
CFR:RING[{[,RPCNa=b[,RPCNc=d]]|[,LNa=b[,LNc=d]]}|[,{RPCNa=b[,RPCNc=d]|
LNa=b[,LNc=d]}:EXCLUDE]|[,{RPCNa=b[,RPCNc=d]|LNa=b[,LNcd]}:INCLUDE]|
[,{RPCNa=b|LNa=b}:MOVFLT]];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`EXCLUDE` = Isolate specified node(s) from the active ring segment. This may cause inclusion or isolation of other nodes to form a workable ring.

Active ring nodes can not be isolated.

A section of the ring can not be isolated such that the remaining active ring segment is too short. That is, the active ring segment must contain a minimum combination of ring nodes and interframe buffers to allow simultaneous propagation of long messages plus the token message. Note that when the system attempts to choose active BISO and EISO ring nodes to isolate a given requested range of node(s), this threshold could be crossed.

As with INCLUDE requests, if an isolated segment currently exists, the node or nodes requested must either include the BISO and/or EISO node(s) or, must already be excluded from the active ring segment.

`INCLUDE` = Make ring nodes part of the active ring segment (default).

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If node(s) are specified then only those nodes will be added to the active ring segment in response to this request.

If no nodes are specified then the new configuration will include as many nodes as possible. If the ring is down, it will be initialized.

If an isolated ring segment currently exists, the requested node or nodes must include the nearest isolated neighbor node or segment of the beginning of isolation (BISO) and/or end of isolation (EISO) nodes so as not to fragment the existing isolated segment.

`LN` = Link node.

`MOVFLT` = Move an indication of a faulty ring interface from the currently isolated ring node to the adjacent ring node, '`a`', and reconfigure the ring so that '`a`' becomes the isolated node.

Automatic ring error analysis cannot always determine which of two adjacent nodes is at fault. When manual maintenance indicates that the wrong ring node has been isolated, this request is used to correct the ring configuration. Such correction may not be possible using other methods because it may be essential to have an isolated node adjacent to the fault and the ring may be too small to allow both nodes to be isolated, even temporarily.

This form of the request is accepted only when a single node is currently isolated and the specified node, 'a', is adjacent (that is, '`a`' is the BISO or EISO ring node) and is not undergoing restoration.

NOTE: The ring can not be reconfigured if either the current BISO or EISO ring node is not active. A ring with an inactive BISO or EISO node is in a transient state, its restoration is given top priority. The MOVFLT option may be used subject to limitations described above.

When the ring is down, the CFR:RING request (without options) will attempt to initialize the ring. This requires at least one RPCN node in the standby (STBY) state. (A successful RST:RPCN input request will leave the RPCN node in the STBY state when the ring is down). The ring initialization will not, in itself, restore any interprocess message switch (IMS) user node (IUN)s to service.

Ring initializations are much slower than ring reconfigurations. Allow several minutes per one hundred nodes equipped in the office.

NOTE: If the ring initialization is successful, any subsequent problems that cause it to go down will probably abort IMS unless manual ring mode is in effect. Refer to the REPT:MANUAL-RING output message for details.

The ring is reconfigured or initialized as per the INCLUDE or EXCLUDE keyword explanation above.

`a` = A ring node (RN) group number or lower limit of a range of RN group numbers (in the direction of flow of ring 0).

`b` = The RN member number or lower limit of a range of RN member numbers.

`c` = Upper limit of a range of RN's group numbers.

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`d` = Upper limit of a range of RN's member numbers.

4. SYSTEM RESPONSE

`PF` = Printout follows. The CFR:RING output message follows.

5. REFERENCES

Input Message(s):

```
RST:RPCN
```

Output Message(s):

```
CFR:RING
REPT:MANUAL-RING
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI RING STATUS PAGE)
1520 (RING NODE STATUS PAGE)

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CFR:RTBM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the size of the Real Time Billing Memory (RTBM) on switching modules (SM's) be configured. Physical memory is allocated to the SM real time billing buffer for growth. The amount specified in the kbytes parameter will become the newly configured real time memory size and must be a multiple of 4. This message is used to configure the RTBM for all module types.

2. FORMAT

```
CFR:RTBM,SM=a,KBYTES=b;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = Number of kilobytes.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `MINIMUM SIZE MUST BE MAINTAINED` = Real time memory must be greater than or equal to a minimum size.
- `REQUEST EXCEEDS AVAILABLE MEMORY` = The amount of real time memory specified exceeds the sum of the current size of real time memory plus the amount of available spare memory.
- `REQUESTED SIZE NOT A MULTIPLE OF 4` = The size of real time billing memory specified by kbytes must be even. All sections of SM memory must be multiples of 4K.

`PF` = Printout follows. Request accepted. The CFR RTBM output message follows.

`RL` = Retry later. May also include:
- `REAL TIME MEMORY NOT EMPTY` = Real time memory is in use.

5. REFERENCES

Input Message(s):

```
DUMP:SMMAP
VFY:RTBM
```

Output Message(s):

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```
CFR:RTBM
DUMP:SMMAP
VFY:RTBM
```

Other Manual(s):
235-190-115 *Local and Toll System Features*
235-190-130 *Local Area Services Features*
235-900-113 *Product Specification*

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CFR:SAMEM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

The CFR:SAMEM command is used to configure the size of the Stand Alone Billing Memory (SABM) on switching modules (SMs). Physical memory is allocated to the SM SABM buffer for growth. The amount specified in the KBYTES parameter will become the new standalone memory size. The size of the SABM must be a multiple of four. This message is used to configure the SABM for all module types.

2. FORMAT

```
CFR:SAMEM,SM=a,KBYTES=b;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = Number of kilobytes.

4. SYSTEM RESPONSE

`PF` = Printout follows. Request accepted. The CFR SAMEM output message will follow. If there are problems in the request they will be reported in the CFR SAMEM output message. Successful SABM updates will also be reported in the CFR SAMEM report. See the CFR SAMEM output message manual page for more information.

`RL` = Retry later. SM is isolated.

5. REFERENCES

Input Message(s):

```
DUMP:SMMAP
VFY:SAMEM
```

Output Message(s):

```
CFR:SAMEM
DUMP:SMMAP
VFY:SAMEM
```

Other Manual(s):
235-190-115 *Local and Toll System Features*
235-190-130 *Local Area Signaling Services*

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235-900-113 *Product Specification*

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CFR:SPRMEM-A

Software Release: 5E16(2) - 5E17(1)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

```
CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer area and hashsums are allocated.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `GDSF2` = The global digital services function 2 (GDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `IDCU` = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `ISLU` = The integrated services line unit (ISLU) resident software image and hashsum are allocated.
- `ISLU2` = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.
- `ISTF` = The integrated services test function (ISTF) resident operational software

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image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSU = The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are allocated.

OIUIP = The internet protocol (IP) OIU resident software image and hashsum are allocated.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.

PH22S = The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

PH31S = The protocol handler model 31 (PH31) high speed common channel signaling resident software image (PH31S) and hashsums are allocated.

PH33Q = The protocol handler model 33 (PH33) generalized QLPS protocol handler resident software image (PH33Q) and hashsums are allocated.

PH3C = The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.

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PHA1	= The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.
PHA2A	= The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.
PHE1	= The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are allocated.
PHE2E	= The protocol handler with SCSI/ethernet version 2 (PHE2) resident software images and hashsums are allocated.
PHE2S	= PHE2 SIP-T (PHE2S) resident software images and hashsums are allocated.
PHV1	= The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.
PHV3C	= The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.
PHV4C	= The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.
PHV5C	= The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.
PI	= The packet interface (PI) resident software image and hashsum are allocated.
PI2	= The packet interface model 2 (PI2) resident software image and hashsum are allocated.
RAF	= The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
SAS	= The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.
V4DSPEVRC1	= The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.
V4DSP13K	= The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V4DSPACELP	= The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V4DSPISLP	= The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V4DSPVSELP	= The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V5DSPCDMA	= The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.
V5DSPISLP	= The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.
V5DSPSME13	= The consolidated SMV, EVRC and 13K DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

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`b` = SM number.

`c` = Request type. Valid value(s):
`DEGROW`
`GROW` = Default.

4. SYSTEM RESPONSE

`PF` = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

`RL` = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

`DUMP:SMMAP`

Output Message(s):

`CFR:SPRMEM`
`DUMP:SMMAP`

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CFR:SPRMEM-B

Software Release: 5E16(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

```
CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer area and hashsums are allocated.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `IDCU` = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `ISLU` = The integrated services line unit (ISLU) resident software image and hashsum are allocated.
- `ISLU2` = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.
- `ISTF` = The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

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LDSF	= The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
LDSF2	= The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
LDSU	= The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
OIU24	= The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.
PH2	= The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.
PH22I	= The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.
PH22S	= The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.
PH31S	= The protocol handler 31 for high speed signaling links image and hashsums are allocated.
PH3C	= The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.
PH3S	= The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.
PH4ACC	= The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.
PH4GWY	= The set of PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.
PH4IFR	= The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.
PH4PP	= The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.
PHA1	= The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.
PHA2A	= The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.
PHE1	= The set of two protocol handler with SCSI/Ethernet version 1 (PHE1) resident software images and hashsums are allocated.
PHE2E	= The protocol handler with SCSI/Ethernet version 2 (PHE2) resident software images and hashsums are allocated.
PHV1	= The speech handler (PHV1) resident software image (PHV1C) and

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hashsum are allocated.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are allocated.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are allocated.

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

b = SM number.

c = Request type. Valid value(s):

DEGROW

GROW = Default.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

RL = Retry later. Memory growth terminal process could not be created.

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5. REFERENCES

Input Message(s):

```
DUMP:SMMAP
```

Output Message(s):

```
CFR:SPRMEM
DUMP:SMMAP
```

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CFR:SPRMEM-C

Software Release: 5E16(2) - 5E17(1)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

```
CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer area and hashsums are allocated.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `GDSF2` = The global digital services function 2 (GDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `IDCU` = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `ISLU` = The integrated services line unit (ISLU) resident software image and hashsum are allocated.
- `ISLU2` = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.
- `ISTF` = The integrated services test function (ISTF) resident operational software

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image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSU = The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are allocated.

OIUIP = The internet protocol (IP) OIU resident software image and hashsum are allocated.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.

PH22S = The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

PH31S = The protocol handler model 31 (PH31) high speed common channel signaling resident software image (PH31S) and hashsums are allocated.

PH3C = The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

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PHA2A	= The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.
PHE1	= The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are allocated.
PHE2E	= The protocol handler (PHE2) with SCSI/ethernet version 2 resident software images and hashsums are allocated.
PHV1	= The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.
PHV3C	= The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.
PHV4C	= The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.
PHV5C	= The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.
PI	= The packet interface (PI) resident software image and hashsum are allocated.
PI2	= The packet interface model 2 (PI2) resident software image and hashsum are allocated.
RAF	= The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
SAS	= The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.
V4DSPEVRC1	= The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.
V4DSP13K	= The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V4DSPACELP	= The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V4DSPISLP	= The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V4DSPVSELP	= The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V5DSPCDMA	= The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.
V5DSPISLP	= The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.
V5DSPSME13	= The consolidated SMV, EVRC and 13K DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

b = SM number.

c = Request type. Valid value(s):

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DEGROW
GROW = Default.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

RL = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

```
DUMP:SMMAP
```

Output Message(s):

```
CFR:SPRMEM
DUMP:SMMAP
```

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CFR:SPRMEM-D

Software Release: 5E18(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

```
CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer area and hashsums are allocated.
- `CSCPSAS` = The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are allocated. This includes the CSCPSAS and CSCPDG images and hashsums.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `GDSF2` = The global digital services function 2 (GDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `IDCU` = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `ISLU` = The integrated services line unit (ISLU) resident software image and

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hashsum are allocated.

ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.

ISTF = The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSU = The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are allocated.

OIUIP = The internet protocol (IP) OIU resident software image and hashsum are allocated.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.

PH22S = The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

PH31S = The protocol handler model 31 (PH31) high speed common channel signaling resident software image (PH31S) and hashsums are allocated.

PH3C = The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated

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as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.

PHE1 = The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are allocated.

PHE2E = The protocol handler (PHE2) with SCSI/ethernet version 2 resident software images and hashsums are allocated.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are allocated. This includes the PHV6C and V6DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are allocated.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are allocated.

PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown:

Image Name:	Description:
CF3FW	CF3 Firmware image
CF3HW	CF3 Hardware image
PF3FW	PF3 Firmware image
PF3HW	PF3 Hardware image

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the

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PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

V6DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV6 speech handlers.

b = SM number.

c = Request type. Valid value(s):

DEGROW

GROW = Default.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

RL = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

DUMP:SMMAP

Output Message(s):

CFR:SPRMEM
DUMP:SMMAP

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CFR:SPRMEM-E

Software Release: 5E19(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

```
CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer area and hashsums are allocated.
- `CSCPSAS` = The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are allocated. This includes the CSCPSAS and CSCPDG images and hashsums.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `GDSF2` = The global digital services function 2 (GDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `IDCU` = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `ISLU` = The integrated services line unit (ISLU) resident software image and

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hashsum are allocated.

ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.

ISTF = The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSU = The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are allocated.

OIUIP = The internet protocol (IP) OIU resident software image and hashsum are allocated.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.

PH22S = The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

PH31S = The protocol handler model 31 (PH31) high speed common channel signaling resident software image (PH31S) and hashsums are allocated.

PH3C = The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated

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as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.

PHE1 = The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are allocated.

PHE2E = The protocol handler with SCSI/ethernet version 2 (PHE2) resident software images and hashsums are allocated.

PHE3B = The protocol handler with ethernet version 3 (PHE3) resident software image and hashsums are allocated.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are allocated. This includes the PHV6C and V6DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are allocated.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are allocated.

PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown:

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

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V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

V6DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV6 speech handlers.

b = SM number.

c = Request type. Valid value(s):

DEGROW

GROW = Default.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

RL = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

DUMP:SMMAP

Output Message(s):

CFR:SPRMEM
DUMP:SMMAP

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CFR:SPRMEM-F

Software Release: 5E20(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

```
CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer area and hashsums are allocated.
- `CSCPSAS` = The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are allocated. This includes the CSCPSAS and CSCPDG images and hashsums.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `GDSF2` = The global digital services function 2 (GDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `IDCU` = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `IPS` = The set of CF4/PF4/PF3I resident firmware and hardware images and their

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corresponding hashsums that are pumped from the AM disk. This set is composed of 2 CF4, 1 PF4 and 2 PF3I images as shown:

ISLU = The integrated services line unit (ISLU) resident software image and hashsum are allocated.

ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.

ISTF = The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSU = The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are allocated.

OIUIP = The internet protocol (IP) OIU resident software image and hashsum are allocated.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.

PH22S = The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

PH31S = The protocol handler model 31 (PH31) high speed common channel signaling resident software image (PH31S) and hashsums are allocated.

PH33Q = The protocol handler model 33 (PH33) generalized QLPS protocol handler resident software image (PH33Q) and hashsums are allocated.

PH3C = The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the

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PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.

PHE1 = The set of two protocol handler with SCSI/ethernet (PHE1) resident software images and hashsums are allocated.

PHE2E = The protocol handler with SCSI/ethernet version 2 (PHE2) resident software images and hashsums are allocated.

PHE2S = PHE2 session initiation protocol for telephony (SIP-T) (PHE2S) resident software images and hashsums are allocated.

PHE3B = The protocol handler with ethernet version 3 (PHE3) resident software image and hashsums are allocated. This image provides bearer interface to the cell site backhaul IP network.

PHE3N = The PHE3 resident software image and hashsums are allocated. This image provides bearer interface to the IP Core network.

PHE4I = The protocol handler with ethernet version 4 (PHE4) resident software image and hashsums are allocated. This image supports inter PSU traffic over an IP network.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are allocated. This includes the PHV6C and V6DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are allocated.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are allocated.

PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown: lw(1i) | lw(2i). Image Name: Description: = CF3FW T{ CF3 Firmware image T} _ CF3HW T{ CF3 Hardware image T} _ PF3FW T{ PF3 Firmware image T} _ PF3HW T{ PF3 Hardware image T}

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and

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hashsum are allocated in conjunction with this request if not already allocated.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V5DEVRCB = The consolidated EVRC and EVRC-B DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

V6DCKTVOC = The CKTVOC DSP image and hashsums which are allocated for use with the PHV6 circuit vocoders.

V6DEVRCB = The consolidated EVRC and EVRC-B DSP software image and hashsum are allocated, for use with the PHV6 speech handlers.

V6DPKTVOC = The PKTVOC DSP image and hashsums which are allocated for use with the PHV6 packet vocoders.

V6DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV6 speech handlers.

b = SM number.

c = Request type. Valid value(s):

DEGROW

GROW = Default.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

RL = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

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```
DUMP:SMMAP
```

Output Message(s):

```
CFR:SPRMEM
DUMP:SMMAP
```

CFR:SPRMEM-G

Software Release: 5E21(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

```
CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer area and hashsums are allocated.
- `CSCPSAS` = The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are allocated. This includes the CSCPSAS and CSCPDG images and hashsums.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are allocated for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are allocated for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are allocated for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are allocated for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `GDSF2` = The global digital services function 2 (GDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `IDCU` = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `IPS` = The set of CF4/PF4/PF3I resident firmware and hardware images and their

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corresponding hashsums that are pumped from the AM disk. This set is composed of 2 CF4, 1 PF4 and 2 PF3I images as shown:

Image Name:	Description:
CF4FW	CF4 Firmware image
CF4HW	CF4 Hardware image
PF4FW	PF4 Firmware image
PF3IFW	PF3I Firmware image
PF3IHW	PF3I Hardware image

`ISLU` = The integrated services line unit (ISLU) resident software image and hashsum are allocated.

`ISLU2` = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.

`ISTF` = The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

`LDSF` = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

`LDSF2` = The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

`LDSU` = The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

`OIU24` = The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.

`OIUATM` = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are allocated.

`OIUIP` = The internet protocol (IP) OIU resident software image and hashsum are allocated.

`PH2` = The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

`PH22I` = The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.

`PH22S` = The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

`PH31S` = The protocol handler model 31 (PH31) high speed common channel signaling resident software image (PH31S) and hashsums are allocated.

`PH33Q` = The protocol handler model 33 (PH33) generalized QLPS protocol handler resident software image (PH33Q) and hashsums are allocated.

`PH3C` = The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

`PH3S` = The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

`PH4ACC` = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the

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PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.

PHE1 = The set of two protocol handler with SCSI/ethernet (PHE1) resident software images and hashsums are allocated.

PHE2E = The protocol handler with SCSI/ethernet version 2 (PHE2) resident software images and hashsums are allocated.

PHE2S = PHE2 session initiation protocol for telephony (SIP-T) (PHE2S) resident software images and hashsums are allocated.

PHE3B = The protocol handler with ethernet version 3 (PHE3) resident software image and hashsums are allocated. This image provides bearer interface to the cell site backhaul IP network.

PHE3N = The PHE3 resident software image and hashsums are allocated. This image provides bearer interface to the IP Core network.

PHE4I = The protocol handler with ethernet version 4 (PHE4) resident software image and hashsums are allocated. This image supports inter PSU traffic over an IP network.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are allocated. This includes the PHV6C and V6DSPCDMA images and hashsums.

PHV7C = The set of six speech handler (PHV7) resident application images and hashsums are allocated. When the ODRID is allocated, additional ODRs are automatically allocated, including the PHV7HW hardware image and hashsum, the PH50FW firmware image and hashsum, the PH50FS FPGA image and hashsum, the PH50PA FPGA image and hashsum, and the default V7DSPA image and hashsum.

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PI = The packet interface (PI) resident software image and hashsum are allocated.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are allocated.

PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown:

Image Name:	Description:
CF3FW	CF3 Firmware image
CF3HW	CF3 Hardware image
PF3FW	PF3 Firmware image
PF3HW	PF3 Hardware image

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software images and hashsums are allocated for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are allocated for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are allocated for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are allocated for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are allocated for use with the PHV4 speech handlers.

V5DEVRCB = The consolidated EVRC and EVRC-B DSP software image and hashsum are allocated for use with the PHV5 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are allocated for use with the PHV5 speech handlers.

V6DCKTVOC = The CKTVOC DSP image and hashsums which are allocated for use with the PHV6 circuit vocoders.

V6DCVEVB = The consolidated EVRC and EVRC-B circuit vocoder DSP software image and hashsum are allocated for use with the PHV6 speech handlers.

V6DEVRCB = The consolidated EVRC and EVRC-B DSP software image and hashsum are allocated for use with the PHV6 speech handlers.

V6DPKTVOC = The PKTVOC DSP image and hashsums which are allocated for use with the PHV6 packet vocoders.

V6DPVEVB = The consolidated EVRC and EVRC-B packet vocoder DSP software image and hashsum are allocated for use with the PHV6 speech handlers.

V6DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated for use with the PHV6 speech handlers.

V7DSPA = The DSP version A image and hashsums are allocated for use with the

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PHV7 speech handlers.

b = SM number.

c = Request type. Valid value(s):
DEGROW
GROW = Default.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

RL = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

DUMP:SMMAP

Output Message(s):

CFR:SPRMEM
DUMP:SMMAP

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15. CHG

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CHG:ALM

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests a change to or adds alarm labels, levels, and repeatability status for office assignable building/power or miscellaneous alarms. Any combination of one or more of the keywords TAG, LVL, and REPEAT can be specified.

2. FORMAT

```
CHG:ALM,a=b{[,TAG[="c"]][,LVL=d][,REPEAT=e]};
```

3. EXPLANATION OF MESSAGE

a = Type of alarm. Valid value(s):
- BPSC = Building/power scan point.
- MISC = Miscellaneous.

b = Scan point number. Valid value(s):

If 'a' =	**'b' =**
BPSC	2 - 27
MISC	0 - 47

c = Alarm label (maximum of 9 characters, plus and minus signs, numbers, or spaces). To remove (not replace) an alarm label, the TAG field 'c' may be entered as a null string (for example, TAG=""), or TAG may be entered without the 'c' argument. If the TAG keyword is not entered or an asterisk (*) is used in field 'c', the alarm label will default to the previous label.

d = Alarm level. If the LVL keyword is not entered, the alarm level will default to the previous level (original default level is MJ). Valid value(s):
- CR = Critical.
- IF = Informational.
- MJ = Major.
- MN = Minor.

e = Alarm repeatability status. If an office assignable alarm is assigned as repeating, when that alarm is activated, it will generate a new alarm every 15 minutes until the stimulus for the alarm is cleared or the alarm is inhibited. If the REPEAT keyword is not entered, the alarm repeatability status will default to the previous value (original default is N). Valid value(s):
- N = No (non-repeating).
- Y = Yes (15-minute repeating).

4. SYSTEM RESPONSE

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PF = Printout follows. A CHG:ALM output message will follow in response to the request.
NG = No good. The request has been denied. The office is not equipped to process the request entered.

5. REFERENCES

Output Message(s):

CHG:ALM

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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CHG:GEN

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a change in the common network interface (CNI) incore view of the CNI generic identification (ID). It causes the CNI to read the equipment configuration data (ECD) and common network interface release (CNIREL) files in order to change the generic ID of the CNI. This input message is executed automatically with every software update containing the CNIREL product and is not intended to be run manually.

2. FORMAT

```
CHG:GEN;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an CHG:GEN output message.

5. REFERENCES

Output Message(s):

`CHG:GEN`

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CHG:LPS-MSGCLS

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the log/print status (LPS) of one or all output message class(es) be changed. A record of the log/print status of each output message class is kept in the current status table and in the backup status table. If the status of the current table is changed without writing to the backup table, the Master Control Center (MCC) system inhibit lamp will be lit.

This message will only change *5ESS®* switch message classes. Message classes are listed in the APP:MSGCLS appendix in the Appendixes section of the Output Messages manual.

NOTE: This message will NOT affect critical, major, and minor alarm level output messages and output messages produced as a result of manual inputs. This message will NOT change common network interface (CNI) message classes either.

Format 1 changes the current log and/or print status to ON or OFF, as specified. If TOBKUP is entered, the same change will be applied to the backup status as well.

Format 2 copies the backup status to the current status, or vice-versa.

2. FORMAT

```
[1]    CHG:LPS,MSGCLS={a|ALL},{PRINT=b|LOG=c|PRINT=b,LOG=c}[,TOBKUP];

[2]    CHG:LPS,MSGCLS={a|ALL},{FROMBKUP|TOBKUP};
```

3. EXPLANATION OF MESSAGE

`ALL` = Change all message classes.

`FROMBKUP` Copy the backup status to the current table.

`TOBKUP` = Copy the current status to the backup table. Discard status cannot be copied to backup table.

`a` = Valid message class.

`b` = Equipment configuration database (ECD) routing status (ON or OFF).

`c` = Daylog routing status (ON or OFF).

NOTE: Discard status can be obtained by specifying `PRINT=OFF,LOG=OFF`. Messages with this status will be discarded unless alarmed or manually generated.

4. SYSTEM RESPONSE

`OK` = Good. The request to change current and/or backup statuses was accepted. May also

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include:
- `EXCEPT CNI MSGCLS'S NOT CHANGED` = The request to change current status of all message classes except CNI message classes was accepted.

`NG` = No good. May also include:
- `DISCARD NOT WRITABLE TO BKUP` = The message class is set to discard and therefore cannot be copied to backup.
- `INTERNAL ERROR` = Failed from lseek, read, or write operations to the disk file that contains the tables.
- `PLEASE REROUTE CNI MESSAGES VIA ECD/RCV` = CNI message classes can only be rerouted using ECD/RCV classdef form on MCC page 199.

`RL` = Retry later. May also include:
- `LPS DISK TABLE (HMlpstable) NOT FOUND` = The disk file that contains the tables cannot be found. A new file will be created and OP:LPS output message will be generated automatically. Retry then.

5. REFERENCES

Input Message(s):

`OP:LPS`
`OP:LOG`

Output Message(s):

`OP:LPS`

Output Appendix(es):

`APP:MSGCLS`

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-100-125 *System Description*
235-600-30x *ECD/SG*

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CHG:MRVT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the message transfer part (MTP) route verification test (MRVT) delay parameter (D), which is used in the calculation of the T1 timer, be changed or displayed. If a request is made to change the delay parameter, and it is within range, the requested value is written onto disk and the delay parameter is updated to the new value.

2. FORMAT

```
CHG:MRVT=[a];
```

3. EXPLANATION OF MESSAGE

`a` = The new value of the delay parameter in seconds (default 8).

NOTE: If this argument is not present on the input message line, the current value of the delay parameter is displayed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by CHG:MRVT output message.

5. REFERENCES

Input Message(s):

```
EXC:MRVT-PC
```

Output Message(s):

```
CHG:MRVT
EXC:MRVT-PC-STPS
REPT:MRVR
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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CHG:MSGCNTL

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that brevity control be activated on messages with CRITICAL, MAJOR, MANUAL and/or MINOR handling priorities. Messages originated with any of these four handling priorities are considered alarmed. Brevity control restricts the number of application terminal (TTY) output messages that are sent to the administrative module (AM) to reduce the quantity of messages. Brevity control is applied for a specific message class and for a specific handling priority.

The brevity control status for each message class can be printed out using the OP:BREVC[,MSGCLS=a] input message. The status for the entire system can be printed out using OP:SYSSTAT input message.

The AM, communications module processor (CMP) and all the switching modules (SMs) normally restrict the generation of output messages through automatic brevity controls on messages with handling priorities lower than the four alarmed levels. Under unusual circumstances, it may be desirable to restrict alarmed messages originating from an SM or CMP which may increase communication link traffic and degrade AM performance and capacity.

Format 1 allows the user to enable/disable brevity control on one or more alarmed message types.

Format 2 allows the user to enable/disable brevity control on one or more alarmed message types and flush the SM or CMP buffers of all messages that are currently covered under brevity control.

Format 3 allows the user to flush the SM or CMP buffers of all messages that are currently covered under brevity control.

This message control is automatically cleared during high-level AM initializations.

WARNING: The indiscriminate use of the CHG:MSGCNTL message may cause alarmed messages to be discarded and delay notification of alarms.

2. FORMAT

```
[1]    CHG:MSGCNTL,{CMP=a|SM=b[&&c][,LSM][,HSM][,RSM][,ORM][,TRM]
       [,DRM]},d={NORM|DISCARD};
                    .
                    .
                    .

[2]    CHG:MSGCNTL,{CMP=a|SM=b[&&c][,LSM][,HSM][,RSM][,ORM][,TRM]
       [,DRM]},d={NORM|DISCARD}
                    .
                    .
                    .
```

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```
       [,FLUSH];

[3]    CHG:MSGCNTL,{CMP=a|SM=b[&&c][,LSM][,HSM][,RSM][,ORM][,TRM]
       [,DRM]}[,FLUSH];
```

3. EXPLANATION OF MESSAGE

`CMP` = Change the state of brevity for the CMP.

`DISCARD` = Enable brevity control. (Used with ALL, CRITICAL, MAJOR, MINOR, and MANUAL input messages.)

`FLUSH` = Allow SM or CMP message buffers to be flushed of all messages that are currently covered under brevity control.

`HSM` = Change the state of brevity control for host switching modules in range.

`LSM` = Change the state of brevity control for local switching modules in range.

`NORM` = Disable brevity control. (Used with ALL, CRITICAL, MAJOR, MINOR, and MANUAL input messages.)

`ORM` = Change the state of brevity control for optical remote switching modules in range.

`RSM` = Change the state of brevity control for remote switching modules in range.

`SM` = Change the state of brevity for one or more SMs.

`TRM` = Change the state of brevity control for two-mile optical remote switching modules in range.

`DRM` = Change the state of brevity control for distinctive remote switching modules in range.

`a` = CMP number.

`b` = SM number or lower limit of a range of SM numbers.

`c` = Upper limit of a range of SM numbers.

`d` = The type of alarmed message for which the state of brevity control should be changed. Valid value(s):

- `ALL` = Change the state of brevity control for all four alarmed messages.
- `CRITICAL` = Change the state of brevity control for critical messages.
- `MAJOR` = Change the state of brevity control for major messages.
- `MANUAL` = Change the state of brevity control for manual messages.
- `MINOR` = Change the state of brevity control for minor messages.

4. SYSTEM RESPONSE

`NG` = No good. An illegal SM number or range was specified or illegal CMP number was specified.

`OK` = Good. The message was accepted and the action completed.

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5. REFERENCES

Input Message(s):

```
ALW:BREVC
OP:BREVC
OP:LPS
OP:SYSSTAT
```

Output Message(s):

```
OP:BREVC
```

Other Manual(s):

235-105-250 *System Recovery Procedures*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

141-144 (EQUIPPED SM STATUS SUMMARY)
1800 (SM INHIBIT & RECOVERY CONTROL)
1850/1851 (CMP INH & RCVRY CNTL)

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CHG:PAUTH

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Changes the password for a given person identity (IDENT) in the person authority database (PAUTH). The user will be forced to choose a new password upon his or her next login.

This input message is not printed (echoed) on the read-only printer (ROP) in order to keep passwords private. This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
CHG:PAUTH:IDENT="a",PSSWD="b";
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the person that uses the password, in one to eight characters.

`b` = Password in six to thirteen characters.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `NON-EXISTENT PERSON IDENTITY` = The given person identity does not exist in the person authority database.
- `PASSWORD INVALID LENGTH` = The given password is greater than 13 characters in length.
- `PASSWORD MUST BE AT LEAST 6 CHARACTERS` = The given password is less than six characters in length.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The person authority database is inaccessible.

`OK` = Good. The identity and password have been changed in the person authority database.

`RL` = Retry later. Valid value(s):
- `AUTHORITY ADMINISTRATION UNDER UPDATE` = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):

`ADD:PAUTH`

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```
DEL:PAUTH
CHG:PSSWD
VFY:PAUTH
```

Output Message(s):

```
VFY:PAUTH
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

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CHG:PRNTMODE-A

Software Release: 5E15 - 5E16(1)
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a change to the print mode of the specified packet interface (PI) and/or packet switching unit protocol handler (PSUPH).

Format 1 changes the print mode of the specified PI of the module controller time slot interchanger (MCTSI) or PSUPH. The desired PSUPH may also be referenced by its currently associated channel group (CHNG). This input message will also print the PSUPH's or PI's logged recovery output reports if RCVYHST is specified.

This input message will also print the PSUPH's or PI's event history if EVENTHST is specified. However, even history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

Format 2 changes the print mode of all PSUPHs and/or all PIs of the specified switching module (SM).

Once the print mode of a PSUPH(s) or(/and) PI(s) is set to "ON", the unit's output reports will be printed on the ROP until manually changed.

2. FORMAT

```
[1]    CHG:PRNTMODE=g,h[,RCVYHST][,EVENTHST];
```

```
[2]    CHG:PRNTMODE=g,SM=a,i;
```

3. EXPLANATION OF MESSAGE

`RCVYHST` = Print all logged output reports from the specified PI or PSUPH.

`EVENTHST` = Print event history from the specified PI or PSUPH.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = CHNG number.

`f` = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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g = Print mode. Valid value(s):

- OFF = Set the printing mechanism to OFF for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to OFF.
- ON = Set the printing mechanism to ON for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to ON.

h = Unit.

```
CHNG=a-b-c-e
MCTSI=a-f
PI
PSUPH=a-b-c-d
```

i = Packet type. Valid value(s):

```
PI
PP
PSUPH
```

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the print mode is changed as requested. The printing of the requested history is in progress. This response is given when a history dump is requested.

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

OK = Good. The message was accepted and the print mode is changed as requested.

5. REFERENCES

Input Message(s):

```
OP:HISTORY
OP:PM-PP-MCTSI
OP:ST
RLS:PM-PP-MCTSI
```

Output Message(s):

```
OP:ST
REPT:PP-EM
```

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```
REPT:PP-EP
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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CHG:PRNTMODE-B

Software Release: 5E16(2) and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a change to the print mode of the specified packet interface (PI) and/or packet switching unit protocol handler (PSUPH).

The specified PI's or PSUPH's stack frame and register dump may be printed out on the ROP if PPFRMREG is set to ON.

Format 1 changes the print mode of the specified PI of the module controller time slot interchanger (MCTSI) or PSUPH. The desired PSUPH may also be referenced by its currently associated channel group (CHNG). This input message will also print the PSUPH's or PI's logged recovery output reports if RCVYHST is specified.

This input message will also print the PSUPH's or PI's event history if EVENTHST is specified. However, even history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

Format 2 changes the print mode of all PSUPHs and/or all PIs of the specified switching module (SM). Once the print mode of a PSUPH(s) or(/and) PI(s) is set to "ON", the unit's output reports will be printed on the ROP until manually changed.

2. FORMAT

```
[1]    CHG:PRNTMODE=g,h[,RCVYHST][,EVENTHST][,PPFRMREG=j];
```

```
[2]    CHG:PRNTMODE=g,SM=a,i[,PPFRMREG=j];
```

3. EXPLANATION OF MESSAGE

`RCVYHST` = Print all logged output reports from the specified PI or PSUPH.

`EVENTHST` = Print event history from the specified PI or PSUPH.

`PPFRMREG` = Print stack frame and register dump from specified PI or PSUPH when an assert fires.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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e = CHNG number.

f = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Print mode. Valid value(s):

- OFF = Set the printing mechanism to OFF for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to OFF.
- ON = Set the printing mechanism to ON for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to ON.

h = Unit.

```
CHNG=a-b-c-e
MCTSI=a-f
PI
PSUPH=a-b-c-d
```

i = Packet type. Valid value(s):

```
PI
PP
PSUPH
```

j = PI's or PSUPH's stack frame and register dump print mode.

- OFF = Log off PSUPH's or PI's stack frame and register dump report when an assert fires.
- ON = Log on PSUPH's or PI's stack frame and register dump report when an assert fires.

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the print mode is changed as requested. The printing of the requested history is in progress. This response is given when a history dump is requested.

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

OK = Good. The message was accepted and the print mode is changed as requested.

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5. REFERENCES

Input Message(s):

```
OP:HISTORY
OP:PM-PP-MCTSI
OP:ST
RLS:PM-PP-MCTSI
```

Output Message(s):

```
OP:ST
REPT:PP-EM
REPT:PP-EP
REPT:STACK-FRAME
REPT:REGISTER
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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CHG:PROFL

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Adds or removes a command group (COMGR) from a profile identity (IDENT) in the profile authority database (PROFL). The IDENT must already be defined by the ADD:PROFL input message.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
CHG:PROFL:IDENT=a,ACTION=b,COMGR=c[-d][-e][-f][-g][-h][-i][-j];
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the profile in one to eight letters and/or digits.

`b` = The action to perform on the profile. Valid value(s):

- `EXCLUDE` = Remove the given command group(s) from the profile.
- `INCLUDE` = Add the given command group(s) to the profile.

`c-j` = Command group. Valid value(s):

- `ADMIN` = System administrator only activities.
- `ALARM` = Alarm manipulation.
- `AM` = Administrative module maintenance.
- `AMA` = Automatic Message Accounting.
- `AUDIT` = Audits.
- `AUTH` = Command and authority administration.
- `CCS` = Common channel signaling.
- `CM` = Communications module maintenance.
- `FHADM` = File handling and administration.
- `MAINT` = Routine maintenance activities.
- `MEAS` = Measurements.
- `NMOC` = Network management and overload control.
- `ODD` = Office Dependent Data activities.
- `PASS` = Personal password modification.
- `RCV` = Recent Change and Verify activities.
- `SM` = Switching module maintenance.
- `SPECRCV` = Special RCV input messages.
- `SFTMGT` = Software management (update, software release retrofit).
- `SFTUTIL` = Software utilities.
- `SUPERUSR` = Super user authority (bypass terminal authority).
- `SYSRCVY` = System recovery activities.
- `TRACE` = Call trace.
- `TRKLN` = Trunk and line maintenance.

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Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

4. SYSTEM RESPONSE

NG = No good. May also include:
- PROFILE IDENTITY DOES NOT EXIST = The given profile identity does not exist in the profile authority database.
- UNABLE TO ACCESS PROFILE ADMINISTRATION = The profile authority database is inaccessible.

OK = Good. Command group(s) successfully added to or removed from the given profile.

RL = Retry later. May also include:
- PROFILE ADMINISTRATION UNDER UPDATE = The profile authority database is currently being updated.

5. REFERENCES

Input Message(s):

ADD:PCGRP
ADD:PROFL
ADD:TCGRP
DEL:PCGRP
DEL:PROFL
DEL:TCGRP
VFY:PCGRP
VFY:TCGRP
VFY:PROFL

Input Appendix(es):

APP:COMMAND-GRP

Output Message(s):

VFY:PCGRP
VFY:PROFL
VFY:TCGRP

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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CHG:PSSWD

Software Release: 5E15 and later
Command Group: PASS
Application: 5,3B
Type: Input

1. PURPOSE

Changes a user's password from its current value to a new value. A user may change only his or her own password.

This input message is not printed (echoed) on the ROP in order to keep passwords private.

This input message is associated with maintenance interface security. Refer to the 235-105-210 manual further information.

2. FORMAT

```
CHG:PSSWD:OLD="a",NEW="b";
```

3. EXPLANATION OF MESSAGE

`a` = Old password in six to thirteen characters.

`b` = New password in six to thirteen characters.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `CURRENT USER IS NOT OWNER OF THE PASSWORD` = A user can change only his or her own password.
- `LESS THAN 'a' WEEK(S) SINCE LAST PASSWORD CHANGE` = A minimum of '`a`' weeks must elapse between password changes, where '`a`' is the minimum password change time defined in the ECD emergency action interface option (EAIOPT) record.
- `OLD PASSWORD INCORRECT` = The given old password does not match the user's current password in the person authority database.
- `PASSWORD CAN NOT BE SIMILAR TO LOGIN ID` = A password must differ from the login (person) identity by at least two character positions. It also must not be the reverse or circular shift of the login identity.
- `PASSWORD CAN NOT BE SIMILAR TO PREVIOUS PASSWORD` = A password must differ from the previous password by at least two character positions. It also must not be the reverse or circular shift of the previous password.
- `PASSWORD MUST BE AT LEAST 6 CHARACTERS` = A password must contain at least six characters.
- `PASSWORD MUST BE DIFFERENT THAN PREVIOUS 3 PASSWORDS` = The last three passwords can not be used as a new password.
- `PASSWORD MUST CONTAIN AT LEAST 2 ALPHA AND 1 DIGIT OR SPECIAL CHAR` = A password must contain at least two alphabetic characters and one digit or special character.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The person authority database is

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inaccessible.

`OK` = Change to password is made in the person authority database.

`RL` = Retry later. May also include:
- `AUTHORITY ADMINISTRATION UNDER UPDATE` = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):

```
ADD:PAUTH
CHG:PAUTH
DEL:PAUTH
VFY:PAUTH
```

Output Message(s):

```
VFY:PAUTH
```

Input Appendix(es):

```
APP:COMMAND-GRP
```

Other Manual(s): Where (x) is the release-specific version of the specified manual.
235-105-210 *Routine Operations and Maintenance*
235-600-31x *ECD/SG Data Base*

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CHG:SLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a change in the minor state of a signaling link (SLK).

2. FORMAT

```
CHG:SLK=a-b:c;
```

3. EXPLANATION OF MESSAGE

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Requested minor state. Valid value(s):

`FIS`	= This option may be used to force manual out-of-service restrictions from a Common Channel Signaling System 7 (CCS7) link.
`GROW`	= Place the link in the growth state. This state is used during link installation or removal.
`IS`	= Place the link in-service. Make signaling link available to traffic.
`MOOS`	= Place the link manually out-of-service. Signaling link cannot handle traffic. Typically used when performing maintenance on a link.
`TEST`	= Place the link in test state. This state is used during link installation or removal.

A request is made to change the minor state of the particular SLK to the specified state. It should be noted that entering this request does not guarantee the specified action. Successful SLK prove-in is required to accomplish the requested action. For example, when a link is in the MOOS state and is being returned to the IS state, it is actually moved from MOOS to OOS, which allows automatic link prove-in to begin. It is not until successful prove-in has been reached that the link is moved to the IS state.

4. SYSTEM RESPONSE

`PF` = Printout follows. The CHG:SLK output message will be printed.

5. REFERENCES

Input Message(s):

```
OP:RING
OP:SLK
```

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Output Message(s):

```
CHG:SLK
OP:RING
OP:SLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Services and Associated Signaling Service Feature*

MCC Display Page(s):

118 (CNI RING STATUS PAGE)
1520 (RING NODE STATUS PAGE)
1521 (SIGNALING LINK SUMMARY PAGE)
1522 (SIGNALING LINK PAGE)

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CHG:SRVT

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that the SCCP routing verification test (SRVT) delay parameter, which is used in the calculation of the T2 timer, be changed or displayed. The expiration of the T2 timer signifies the end of the waiting period for the reception and processing of all expected SCCP routing verification acknowledgement (SRVA) messages.

If a request is made to change the delay parameter, and the requested value is within range, it is written onto disk and the delay parameter is updated to the new value. This new value becomes the new "default", that will be read in on initializations. The initial default is 12.

2. FORMAT

```
CHG:SRVT[=a];
```

3. EXPLANATION OF MESSAGE

`a` = The new value of the delay parameter. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

NOTE: If this argument is not present on the input message line, the current value of the Delay parameter is displayed to the maintenance output class.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CHG:SRVT output message.

5. REFERENCES

Input Message(s):

```
EXC:SRVT
OP:TPC
```

Output Message(s):

```
CHG:SRVT
EXC:SRVT
OP:TPC
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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16. CLR

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CLR:ACKDB

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the segment name of acknowledgement database (ACKDB) be invalidated so that the next invocation of either the shell or display administration process (DAP) reinitializes the segment name using the ACKDB installed in /cft/she/ackdb. Current running processes will continue to use the old copy of the ACKDB until they are terminated. New processes will typically generate NA BAD ACKDB acknowledgements until the shells and display administration process are restarted using the 805 and 808 pokes on the C/D UPDATE MCC page.

WARNING: This message is intended for field update purposes only.

2. FORMAT

```
CLR:ACKDB;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress. Request received and initiated. Further output will follow.

5. REFERENCES

Input Message(s):

```
STOP:EXC-ANY
```

Output Appendix(es):

```
APP:ACK-DB
```

Other Manual(s):
235-105-250 *Craft Terminal Lockout Job Aid*
235-105-210 *Routine Operations and Maintenance*
235-600-400 *Audits*

MCC Display Page(s):

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190 (C/D UPDATE)

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CLR:ALARMS

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that the alarm indicators on the display terminals be cleared (retired), the exit pilot light alarm units and the audible alarms. This message has the same effect as pressing the alarm release key (PF4) on a display terminal.

2. FORMAT

```
CLR:ALARMS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The alarms have been cleared.

`NG` = No good. The system is unable to clear the alarms.

5. REFERENCES

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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CLR:AMA-MAPS

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic message accounting (AMA) partitions on the offline moving head disk (MHD) be cleared during retrofits, disk growths, and updates, to ensure that all billing data recorded on the offline MHD is current.

NOTE: This message has no effect unless a retrofit, disk growth, or update is in progress.

2. FORMAT

```
CLR:AMA:MAPS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted, and the CLR:AMA-MAPS output message follows.

`RL` = Retry later. Process could not attach to a protected application segment.

5. REFERENCES

Output Message(s):

```
CLR:AMA-MAPS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-105-24x *Software Release Retrofit*

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CLR:ARC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Clears one or all alternate route cancellation (ARC) controls of a given control type. This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT

```
CLR:ARC[,OFFICE=a,],TYPE=b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching office name. The default is for the total office.

`b` = Type of control to be cleared. Valid value(s):

- `CANT` = Clear the cancel to (CANT) control. Refer to the SET:ARC input message for the description of CANT.
- `CANF` = Clear the cancel from (CANF) control. Refer to the SET:ARC input message for the description of CANF.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:ARC output message.

`RL` = Retry later. May also include:

- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:ARC
OP:ARC
OP:M5
SET:ARC
```

Output Message(s):

```
CLR:ARC
```

Other Manual(s):
235-900-113 *Product Specification*

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MCC Display Page(s):

(DSN EXCEPTION)
(OVERLOAD)

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CLR:ASPTQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Clears an advanced services platform (ASP) 0.1 test query parameter (or set of parameters) that has been set.

All of the fields for a parameter are cleared. By specifying a parameter name, a single parameter may be cleared. By specifying a message type, all of the test query parameters associated with that message are cleared. Since a parameter may be used for more than one message type, clearing such a parameter causes the parameter to be cleared for all message types. Caution should be exercised when choosing the message type option.

All of the parameters may be cleared by specifying the ALL message type.

2. FORMAT

```
CLR:ASPTQ,{MSGPARM=a|MSGTYPE=b};
```

3. EXPLANATION OF MESSAGE

a = The test query parameter name to be cleared. Valid value(s):

ACCCD	= Access code.
AMAMSMENT	= AMA measurement.
AMP	= Advanced intelligence network maintenance parameter.
BEARCAP	= Bearer capability.
BUSYCAUSE	= Busy cause.
BUSYTYPE	= Busy type.
CHGNBR	= Charge number.
CHGTYPE	= Charge party station type.
CLDPTY	= Called party ID.
CLDTYPE	= Called party station type.
CLEARCS	= Clear cause.
CLGBGID	= Calling party business group ID.
CLGPTY	= Calling party ID.
CLOSECAUSE	= Close cause.
COLLADR	= Collected address information.
COLLDIGS	= Collected digits.
DISCCAUSE	= Disconnect cause.
DTMFDGTDET	= Dial tone multi-frequency (DTMF) digits detected.
EXTENSION	= Extension.
FAILCAUSE	= Failure cause.
GENLIST	= Generic address list.
GENNAME	= Generic name.
GLOBTITLE	= Global title address.
LATA	= Local access and transport area.
NOTIFYIND	= Notification indicator.

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OPC = Origination point code.
ORIGCLDPTY = Original called party ID.
PLATFORM = Signaling Platform.
PRMCAR = Primary carrier.
RDIRINFO = Redirection information.
RDIRPTY = Redirecting party ID.
TCMARK = Traveling class mark.
TIMER = Timer.
TRANTYPE = Translation type.
TRIGTYPE = Trigger criteria type.
USERID = User ID.
VERTSRVCD = Vertical service code.

b = The message type. For convenience, the test query parameters associated with each message type are listed below. Even though the timer parameter is displayed with each message type (refer to the OP:ASPTQ input message), the timer parameter is not cleared when clearing parameters based upon a message type (except for the ALL message type).

NOTE: The message type of NPINFOANAL is not allowed for the CLR:ASPTQ message. To clear the parameters associated with the number portability (NP) test query message type (TST:ASPTQ,MSGTYPE=NPINFOANAL), use the message type of INFOANAL.

Valid value(s):

CLOSE = Close.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Close cause.
- User ID.

INFOANAL = Information analyzed.
- Access code.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party business group ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Translation type.
- Traveling class mark.

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- Trigger criteria type.
- User ID.
- Vertical service code.
- Global title address.

INFOCOLL = Information collected.

- Access code.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Extension.
- Generic address list.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.
- Global title address.

NTWKBSY = Network Busy.

- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charging party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Traveling class mark.
- Trigger criteria type.
- User ID.

OANSWER = Originating answer.

- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.

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- User ID.

OCLDPTYBSY = Originating called party busy.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Busy cause.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Trigger criteria type.
- User ID.

ODISCONNECT = Originating disconnect.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Disconnect cause.
- Notification indicator.
- User ID.

ODTMFENTRD = Originating dial tone multi-frequency (DTMF) entered.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- DTMF digits detected.
- Notification indicator.
- User ID.

ONOANSWER = Originating no answer.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Trigger criteria type.
- User ID.

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ORIGAT = Origination attempt.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Origination point code.
- Primary carrier.
- Signaling platform.
- Translation type.
- Trigger criteria type.
- User ID.
- Global title address.

OTERMSZD = Originating termination seized.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

TANSWER = Terminating answer.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

TBUSY = Terminating busy.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Busy cause.
- Busy type.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Trigger criteria type.
- User ID.

TERMAT = Termination attempt.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.

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- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Global title address.

`TNOANSWER` = Terminating no answer.

- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Trigger criteria type.
- User ID.

`TRMRSRCAVL` = Terminating resource available.

- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

`RESCLR` = Resource clear.

- Advanced intelligence network maintenance parameter.
- AMA measurement.
- Clear cause.
- Collected address information.
- Collected digits.
- Failure cause.
- Primary carrier.

`ALL` = All of the ASP 0.1 test query parameters.

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4. SYSTEM RESPONSE

`NO` = The request is not allowed. May also include:
- `FEATURE NOT AVAILABLE` = The ASP 0.1 feature must be purchased before attempting to clear an ASP 0.1 test query parameter. This response can also be received when attempting to clear a parameter that is itself restricted by an additional feature purchase.

`OK` = Good. The request was accepted.

`RL` = Retry later. May also include:
- `INTERNAL ERROR` = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):

```
OP:ASPTQ
SET:ASPTQ
TST:ASPTQ
```

Other Manual(s):
235-190-126 *Advanced Services Platform*

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CLR:AUD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Format 1 requests the clearing of the full static office-dependent data (SODD) audit's schedule. Either part or all of the schedule may be cleared.

Format 2 requests the removal of existing full and incremental SODD audit error logs generated from their previous cycles of execution. All /rclog/SODD/errlog/*.prev files are removed. This input message should be used when the file system space for /rclog is low.

Format 3 requests the removal of single or all current audits from the SODDCNTL file.

Format 4 requests the removal of restart files generated by PRC, MFT=ALL and FULL audits.

2. FORMAT

```
[1]    CLR:AUD=SODD,SCHED,DAY=a;

[2]    CLR:AUD=SODD,ERRLOG;

[3]    CLR:AUD=SODD,AUDIT=b;

[4]    CLR:AUD=SODD,c;
```

3. EXPLANATION OF MESSAGE

`a` = Day from the full audit schedule to be cleared. Valid value(s):

`MON`	= Monday.
`TUE`	= Tuesday.
`WED`	= Wednesday.
`THU`	= Thursday.
`FRI`	= Friday.
`SAT`	= Saturday.
`SUN`	= Sunday.
`ALL`	= All days. All entries in the schedule are cleared.

`b` = Audit to be cleared from the SODDCNTL file. Valid value(s):

`BOOT`	= Boot Critical sub audit.
`BRCS`	= BRCS sub audit.
`CCS`	= CCS sub audit.
`DIGIT`	= Digit Analysis sub audit.
`EQUIP`	= Equipment sub audit.
`FULL`	= Full audit.
`GLOBAL`	= Global Parameters sub audit.
`INCR`	= Incremental audit.
`ISDN`	= ISDN sub audit.

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LINE = Line sub audit.
MISC = Miscellaneous sub audit.
MLHG = MLHG sub audit.
PSMLHG = Packet Switching MLHG sub audit.
OSPS = OSPS sub audit.
TRUNK = Trunk sub audit.
PSTRUNK = Packet Switching Trunk sub audit.
ALL = All audits. All audits from the SODDCNTL file are removed.

c = Restart file to be removed. Valid value(s):
PRC = Processor Entity audit.
MFTALL = All BRCS MFT audits.
FULL = Full audit.

4. SYSTEM RESPONSE

PF = Printout follows. Valid value(s):
- OP AUD=SODD SCHED MESSAGE FOLLOWS = Followed by an OP:AUD-SODD-SCH output message.
- OP AUD=SODD MESSAGE FOLLOWS = Followed by an OP:AUD-STATUS or OP:AUD-ERROR output message.
- OP AUD=SODD STATUS MESSAGE FOLLOWS = Followed by an OP:AUD-STATUS or OP:AUD-ERROR output message.
- OP AUD=SODD AUDIT MESSAGE FOLLOWS = Followed by OP:AUD-SODD-AUDIT output message.

5. REFERENCES

Input Message(s):

```
EXC:AUD-SODD
SCHED:AUD-SODD
OP:AUD-SODD
STP:AUD-SODD
SET:AUD
```

Output Message(s):

```
OP:AUD-ERROR
OP:AUD-SODD-SCH
OP:AUD-STATUS
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance Manual*

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CLR:BACKOUT

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that non-backed-up application recent changes be cleared from the administrative module (AM) and/or one or more switching modules (SMs) or a communication module processor (CMP) on a bootstrap (pump) of that processor. This message cancels the effect of the SET:BACKOUT input message.

Normally, when a processor undergoes a high-level initialization (selective initialization or full initialization), recently applied recent changes are replaced in the text and/or office dependent data (ODD).

WARNING: Recent changes that have been applied since the last backout will not be included on one or more processors. Permitting backouts of selected processors may introduce inconsistencies between processors which can have adverse effects.

2. FORMAT

```
CLR:BACKOUT,RC,{CMP=a,{PRIM|MATE}|AM|SM=b[&&c],AM|SM=b[&&c]}[,LSM][,HSM]
[,RSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`MATE` = Mate CMP.

`PRIM` = Primary CMP.

`RC` = Mark the named processor(s) to include all recent changes that have not been backed up on subsequent AM bootstraps and/or SM pumps.

`a` = CMP number.

`b` = SM number, or the lower limit of a range of SM numbers.

`c` = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because:
- An illegal SM number or invalid range/type combination was specified.
- An illegal CMP number/type combination was specified.

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- The processor type was invalid or missing (AM, SM or CMP).

`OK` = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

```
EXC:ODDRCVY
OP:SYSSTAT
SET:BACKOUT
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*

MCC Display Page(s):

110 (SYSTEM INHIBITS)
1800 (INH & RCVY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)

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CLR:BICCBMOVE

Software Release: 5E16(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

The purpose of this command is to reset environment variables because of an abnormal termination of the EXC:BICCBMOVE input message. This command only resets the environment and will not stop a running EXC:BICCBMOVE process.

To stop an EXC:BICCBMOVE process, use STP:BICCBMOVE.

2. FORMAT

```
CLR:BICCBMOVE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No Good. May also include:
- `CIC ALLOCATION PROCESS IS RUNNING` = An EXC:BICCBMOVE process is currently running normally.

`OK` = Good. The request was accepted and completed. The abnormally terminated EXC:BICCBMOVE process will be cleared from the system.

5. REFERENCES

Input Message(s):

```
EXC:BICCBMOVE
OP:BICCBMOVE
```

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CLR:BKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests an automated system backup to be unscheduled. This message removes the specified backup entry from the system cron table file.

2. FORMAT

```
CLR:BKUP:a:DATA,DAY=b,TIME=c;
```

3. EXPLANATION OF MESSAGE

`a` = Interval. Valid value(s):

- `MONTH` = Monthly backup is to be unscheduled.
- `WEEK` = Weekly backup is to be unscheduled.

`b` = Day. If '`a`' is equal to "`WEEK`", then this variable is the day of the week. Valid value(s):

- `0` = Sunday.
- `1` = Monday.
- `2` = Tuesday.
- `3` = Wednesday.
- `4` = Thursday.
- `5` = Friday.
- `6` = Saturday.

If '`a`' is equal to "`MONTH`", then this variable is the day of the month (1-31).

`c` = Time of day the backup is to begin in hours and minutes (hhmm) between 0000 and 2359. Example, 2200 is 10:00 PM.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:BKUP output message.

5. REFERENCES

Input Message(s):

```
ALW:AUTOBKUP
INH:AUTOBKUP
OP:BKUP
SCHED:BKUP
SET:BKUP
STP:AUTOBKUP
```

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Output Message(s):

```
CLR:BKUP
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance Procedures*

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CLR:CALLMON

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the verbose mode of the call monitor be turned off.

2. FORMAT

```
CLR:CALLMON,VERBOSE
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

```
ALW:CALLMON
INH:CALLMON
OP:CALLMON
RTR:CALLMON
SET:CALLMON
```

Output Message(s):

```
OP:CALLMON
REPT:CALLMON-CMR
REPT:CALLMON-VTC
```

Output Appendix(es):

```
APP:CALLMON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

116 (MISCELLANEOUS)

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CLR:CCS-SRST

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears the status of a route making it available, and stops the signaling route set test (SRST) for the route.

WARNING: Use of this message may be service affecting.

2. FORMAT

```
CLR:CCS,SRST,SM=a,{DPC=b|CLUSTER=c}[,LS=d];
```

3. EXPLANATION OF MESSAGE

`a` = Common channel signaling (CCS) global switching module (GSM) number.
Note: It is required that the GSM number is provided by the craft for this command.

`b` = Destination point code (DPC) identifier. This format is network-cluster-member. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

`c` = Cluster identifier. This format is network-cluster only. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Link set. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Note: If LS is not specified, the change/removal shall be applied to all applicable linksets within the GSM. If parallel link sets are provisioned to the same DPC they will also be cleared.

4. SYSTEM RESPONSE

`NG` = No good. The syntax of a message is valid, but the message has been denied. The request can be repeated. May also include:
- `INVALID GSM SPECIFIED` = Invalid GSM number specified by the craft.
- `EITHER DPC OR CLUSTER MUST BE PROVIDED` = Either DPC or cluster must be provided by the craft.
- `OFFICE NOT EQUIPPED WITH CCS` = Office not equipped with CCS signaling.

`PF` = Printout follows. The request was received and will be acted on. The CLR:SRST output message follows.

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RL = Retry later. System resources are unavailable to execute this input message now.

5. REFERENCES

Output Message(s):

```
CLR:CCS-SRST
```

Input Appendix(es):

```
APP:RANGES
APP:POINT-CODE
```

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CLR:CGAP

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests clearance of a network management (NM) call gapping (CGAP) code control restricting traffic by issuing a destination code, an access prefix, or both. This message also has an option to clear all CGAP code controls in the office.

Format 1 clears all the CGAP code controls in the office. Format 2 clears the CGAP code control for a specified destination code regardless of the access prefix. Format 3 clears the CGAP code control for a specified prefix regardless of the destination code. Format 4 clears the CGAP code control for a specified destination code and a specified prefix.

2. FORMAT

```
[1]    CLR:CGAP;

[2]    CLR:CGAP,CODE=a,DOM={ALL|c};

[3]    CLR:CGAP,PREFIX=b,DOM={ALL|c};

[4]    CLR:CGAP,CODE=a,PREFIX=b,DOM={ALL|c};
```

3. EXPLANATION OF MESSAGE

`ALL` = Clear code control to all domains. The default is to clear all CGAP code controls in the office.

NOTE: If the control is set on code, prefix, and domain, all three are required in the message to clear the control.

`a` = Destination code (up to 18 characters; valid character set 0-9,"*","#").

`b` = The access prefix. The access prefix only applies to feature group D carriers.

`c` = Switching domain list.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:CGAP output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

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Input Message(s):

```
OP:CGAP
OP:M5
SET:CGAP
```

Output Message(s):

```
CLR:CGAP
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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CLR:DCC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Clears destination code cancellation (DCC) controls restricting traffic. This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT

```
CLR:DCC[,CODE=a];
```

3. EXPLANATION OF MESSAGE

`a` = Digit destination code (up to 15 digits). The default is all codes.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:DCC output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
OP:DCC
OP:M5
SET:DCC
```

Output Message(s):

```
CLR:DCC
```

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

(DSN EXCEPTION)
(OVERLOAD)

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CLR:DOC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a single dynamic overload control (DOC) be cleared on a specified trunk group.

2. FORMAT

```
CLR:DOC,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the CLR:DOC output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

`ASGN:DOC`
`OP:DOC`

Output Message(s):

`CLR:DOC`

Other Manual(s):
235-190-120 *CCS7 Signaling Service Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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CLR:DSE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the trapping and printing of direct signaling events (DSE) be turned off. These events will be reported in the REPT:ACP-APP-SM, REPT:ASP, REPT:DSE, REPT:MS-TRAPPED, REPT:NS and REPT:OSPS-DSE output messages.

2. FORMAT

```
CLR:DSE=a;
```

3. EXPLANATION OF MESSAGE

a = Event trap to be turned off. Valid value(s):

- ALL = All events.
- AILSGMG = Automated inward line screening (AILS) message received with invalid format reply.
- AILSMRQ = AILS error - misrouted query.
- AILSTOT = AILS query timed out before a reply was received.
- AILSTRF = AILS error - task refused.
- AILSUDV = AILS error - message received with unexpected input data value.
- ASPACGCOMP = Advanced services platform (ASP) service control point (SCP) response or unidirectional message with an automatic call gap (ACG) component received at the switch.
- ASPBADRESP = ASP SCP response message received with invalid data.
- ASPNORTEMSG = ASP reject message, return error and a play announcement received at the switch from the SCP.
- ASPQRYFAIL = ASP query blocked by network management (NM) ACG, a returned query or conversation received at the switch or a time out received in call processing.
- ASPSNCOMP = ASP SCP response message with a send notification component received at the switch.
- ASPTNMSG = ASP termination notification message sent from the switch to the SCP.
- CASDBOV = Customer account services (CAS) message received indicating database overload.
- CASDBUN = CAS message returned - database unable to process.
- CASGMSG = CAS message received garbled.
- CASNBLK = CAS message returned because of network blockage.
- CASNCON = CAS message returned because of network congestion.
- CASNRTE = CAS message returned because of no routing data.
- CASTOUT = CAS message returned because of timeout.
- CASUNEQ = CAS message returned because of unequipped destination.
- CASURPY = CAS message received with an unexpected reply.
- CAS7ABM = CAS common channel signaling 7 (CCS7) abort message received.
- CAS7ACG = CAS CCS7 ACG invoke component received.
- CAS7GMG = CAS CCS7 received with invalid format reply.

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CAS7GWE = CAS CCS7 error - gateway error.
CAS7MPR = CAS CCS7 error - message received with missing parameter.
CAS7MRQ = CAS CCS7 error - misrouted query.
CAS7NCG = CAS CCS7 message returned because of network congestion.
CAS7NFL = CAS CCS7 message returned because of network failure.
CAS7RCR = CAS CCS7 reject component received.
CAS7SCG = CAS CCS7 message returned because of subsystem congestion.
CAS7SFL = CAS CCS7 message returned because of subsystem failure.
CAS7TAN = CAS CCS7 message returned - no translation data for address of such nature.
CAS7TOT = CAS CCS7 query which timed out before reply received.
CAS7TRF = CAS CCS7 error - task refused.
CAS7TSA = CAS CCS7 message returned - no translation data for this specific address.
CAS7UDV = CAS CCS7 error - message received with unexpected input data value.
CAS7UPR = CAS CCS7 error - message received with unexpected parameter.
CAS7UQD = CAS CCS7 message returned - unqualified.
CAS7URY = CAS CCS7 received with unexpected reply.
CAS7UUR = CAS CCS7 message returned - unequipped user.
CAS7VCD = CAS CCS7 error - vacant code.
CCDDBOV = BVA calling card (CCRD) message received indicating database overload.
CCDDBUN = BVA CCRD message returned because database unable to process.
CCDGMSG = BVA CCRD message received garbled.
CCDNBLK = BVA CCRD message returned because of network blockage.
CCDNCON = BVA CCRD message returned because of network congestion.
CCDNRTE = BVA CCRD message returned because of no routing data.
CCDUNEQ = BVA CCRD message returned because of unequipped destination.
CCDURPY = BVA CCRD message received with an unexpected reply.
ICCVABM = International credit card validation (ICCV) abort message received.
ICCVDBU = ICCV error - message returned - database unavailable.
ICCVEMF = ICCV error in message format.
ICCVGMG = ICCV received with invalid format reply.
ICCVMPR = ICCV error - message received with missing parameter.
ICCVMRQ = ICCV error - misrouted query.
ICCVNCG = ICCV message returned because of network congestion.
ICCVNFL = ICCV message returned because of network failure.
ICCVRCR = ICCV reject component received.
ICCVSCG = ICCV message returned because of subsystem congestion.
ICCVSFL = ICCV message returned because of subsystem failure.
ICCVTAN = ICCV message returned - no translation data for address of such nature.
ICCVTOT = ICCV query which timed out before reply received.
ICCVTSA = ICCV message returned - no translation data for this specific address.
ICCVUDV = ICCV error - message received with unexpected input data value.
ICCVUPR = ICCV error - message received with unexpected parameter.
ICCVUQD = ICCV message returned - unqualified.
ICCVURY = ICCV received with unexpected reply.
ICCVUUR = ICCV message returned - unequipped user.
INWBLKD = Inward wide area telecommunications service (INWATS) returned blocked.
INWBUSY = INWATS all lines busy.
INWCCBL = INWATS code control blocked.

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INWDBOV = INWATS database overload.
INWDBTO = INWATS database timeout.
INWDSBL = INWATS direct signaling blocked.
INWNNPA = INWATS nonpurchased numbering plan area (NPA).
INWNOXL = INWATS returned no translation.
INWONPA = INWATS invalid originating numbering plan area (ONPA).
INWOVLD = INWATS returned overload.
INWUNEQ = INWATS returned unequipped.
INWVLIN = INWATS vacant line number.
INWVNXX = INWATS vacant NXX.
LACABM = Line application for consumers (LAC) abort message received.
LACACG = LAC invoke component received.
LACGMG = LAC message received with invalid format.
LACMPR = LAC error - message received with missing parameter.
LACMRQ = LAC error - misrouted query.
LACNCG = LAC message returned because of network congestion.
LACNFL = LAC message returned because of network failure.
LACRCR = LAC reject component received.
LACSCG = LAC message returned because of subsystem congestion.
LACSFL = LAC message returned because of subsystem failure.
LACTAN = LAC message returned - no translation data for address of such nature.
LACTOT = LAC query timed out before a reply was received.
LACTRF = LAC error - task refused.
LACTSA = LAC message returned - no translation data for this specific address.
LACUDV = LAC error - message received with unexpected input data value.
LACUPR = LAC error - message received with unexpected parameter.
LACUQD = LAC message returned - unqualified.
LACURY = LAC unexpected reply.
LACUUR = LAC message returned - unequipped user.
LACVCD = LAC error - vacant code.
LIDBCGI = Line information database (LIDB) message with call gapping indicator present.
LIDBGM = LIDB garbled message.
LIDBMGM = LIDB return value missing group or misrouted.
LIDBNAN = LIDB return value no translation for an address of such nature.
LIDBNCG = LIDB return value network congestion.
LIDBNFL = LIDB return value network failure.
LIDBNPG = LIDB return value nonparticipating group.
LIDBNSA = LIDB return value no translation for this specific address.
LIDBREJ = LIDB reject message received.
LIDBSCG = LIDB return value subsystem congestion.
LIDBSFL = LIDB return value subsystem failure.
LIDBTO = LIDB message missed because of timeout.
LIDBUP = LIDB message with unexpected reply.
LIDBUUR = LIDB return value unequipped user.
LNBAS = Call failed due to the query being blocked at the switch.
LNBN = Call failed due to the query being blocked in the common channel signaling (CCS) network.
LNGTCAP = Garbled transaction capabilities application part (TCAP) message received -

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	message can not be parsed.
LNNCANI	= Centralized automatic message accounting (CAMA) call failed due to CAMA trunk not providing automatic number identification (ANI) for query.
LNNCFA	= Call failure due to some reason while the transaction with the network control point (NCP) is active.
LNNCFI	= Call failure due to some reason while the transaction with the NCP is inactive.
LNRER	= Call failed due to the conversation with the NCP resulting in a return error response.
LNRR	= Call failed due to the conversation with the NCP resulting in a reject response.
LNTIM	= Call failed due to the query not being answered in time by the NCP.
LNTRF	= Call failed due to the NCP answering with a terminate request.
MSFAILRCVD	= A "Message Service System (MSS) reject" message or a "return error" message was received at the near/far switch from the far/near switch respectively.
MSFAILSENT	= An "MSS reject" message or a "return error" message was sent to the near/far switch respectively.
MSQRYFAIL	= A timeout was received in MSS. A "return query" message was received at the near switch because of network failure or failure to send a query.
NCDAFTA	= Network call denial (NCD) denied after answer.
NCDBEFA	= NCD denied before answer.
NCDBLKD	= NCD returned blocked.
NCDCCBL	= NCD code control blocked.
NCDDBOV	= NCD database overload.
NCDDENY	= NCD deny received.
NCDDSBL	= NCD direct signaling blocked.
NCDNOXL	= NCD returned no translation.
NCDOVLD	= NCD returned overload.
NCDUNEQ	= NCD returned unequipped.
NSACGCOMP	= Number services (NS) SCP response message with an ACG component received at the switch.
NSBADRESP	= NS SCP response message with invalid data.
NSNONRTEMSG	= NS reject message, a return error and a play announcement received at the switch from the SCP.
NSQRYFAIL	= NS query blocked by NM ACG, a returned query received at the switch or a time out received in call processing.
NSSNCOMP	= NS SCP response message with a send notification received at the switch.
NSTNMSG	= NS termination notification message sent from the switch to the SCP.
OLNPABM	= OSPS LNP abort message received.
OLNPACG	= OSPS LNP ACG invoke component received.
OLNPECR	= OSPS LNP error code received.
OLNPGMG	= OSPS LNP received with invalid format reply.
OLNPNCG	= OSPS LNP message returned because of network congestion.
OLNPNFL	= OSPS LNP message returned because of network failure.
OLNPRCR	= OSPS LNP reject component received.
OLNPSCG	= OSPS LNP message returned because of subsystem congestion.
OLNPSFL	= OSPS LNP message returned because of subsystem failure.
OLNPTOT	= OSPS LNP query which timed out before reply received.
OLNPTSA	= OSPS LNP message returned - no translation data for this specific address.

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OLNPTSN	= OSPS LNP message returned - no translation data for address of such nature.
OLNPUQD	= OSPS LNP message returned - unqualified.
OLNPURY	= OSPS LNP received with unexpected reply.
OLNPUUR	= OSPS LNP message returned - unequipped user.
RATDBOV	= Rating message received indicating database overload.
RATDBUN	= Rating message returned because database unable to process.
RATGMSG	= Rating message received garbled.
RATTOUT	= Rating message returned because of timeout.
RATURPY	= Rating message received with an unexpected reply.
SDNBAS	= Call failed due to the query's being blocked at the switch.
SDNBN	= Call failed due to the query's being blocked in the common channel signaling (CCS) network.
SDNGTCAP	= Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.
SDNNCANI	= Centralized automatic message accounting (CAMA) call failed due to CAMA trunk's not providing automatic number identification (ANI) for query.
SDNNCFA	= Call failed while the transaction with the network control point (NCP) was active.
SDNNCFI	= Call failed while the transaction with the NCP was inactive.
SDNNOCANI	= CAMA call failed due to CAMA trunk's not providing ANI through operator number identification (ONI) for query.
SDNRER	= Call failed because to the conversation with the NCP resulting in a return error response.
SDNRR	= Call failed because to the conversation with the NCP resulting in a reject response.
SDNTIM	= Call failed due to the query's not being answered in time by the NCP.
SDNTRF	= Call failed due to the NCP's answering with a terminate request.

4. SYSTEM RESPONSE

OK	= Good. The request was received and the trap was deactivated.

5. REFERENCES

Input Message(s):

```
SET:DSE
```

Output Message(s):

```
REPT:ACP-APP-SM
REPT:ASP
REPT:DSE
REPT:MS-TRAPPED
REPT:NS
REPT:OSPS-DSE
```

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Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-190-120 *Common Channel Signaling Service Features*
235-190-12x *Advanced Services Platform*

CLR:DSNM5-B

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Deletes a package (PKG) from the five-minute (M5) surveillance data set of packages. This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT

```
CLR:DSNM5,PKG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Package. Valid value(s):

- `ARC` = Alternate route cancellation control.
- `CLCT` = Network management control counts.
- `CLDIR` = Call direction.
- `DCC` = Destination code cancellation control.
- `DLYR` = Delayed readiness.
- `IMA` = Additional ineffective machine attempts.
- `OVRLD` = Overload or congestion control.
- `RRC` = Manual reroute trunk group controls.
- `SVC` = Critical service circuits.
- `TGFLAG` = Trunk group flags.
- `TGMEAS` = Basic trunk group measurements.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):

- `– PACKAGE UNASSIGNED` = Package not assigned for data collection.

`PF` = Printout follows. Followed by the CLR:DSNM5 output message.

`RL` = Retry later. Valid value(s):

- `– LOCKED OUT` = Package data is currently locked out for five-minute data collection.

5. REFERENCES

Input Message(s):

```
OP:M5PKG
SET:DSNM5
```

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Output Message(s):

```
CLR:DSNM5
```

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

129 (DSN NM EXCEPTION)
109 (OVERLOAD)

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CLR:EMERDMP

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Clears the emergency dump partition status flag. The flag is set whenever an emergency dump is written to disk. Until the flag is cleared, it causes the REPT:EMER-DUMP output message to be printed periodically and prevents a new emergency dump being written to disk until 12 hours later. The user is provided with sufficient time to copy out the partition contents onto a tape.

2. FORMAT

```
CLR:EMERDMP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. Emergency dump partition is marked empty.

`PF` = Printout follows. Followed by the CLR:EMERDMP output message.

5. REFERENCES

Input Message(s):

```
COPY:TAPE-EMERDMP
OP:EMERSTAT
```

Output Message(s):

```
CLR:EMERDMP
REPT:EMER-DUMP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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CLR:ESA

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Request to clear the forced active state of an enhanced 911 service adjunct (ESA).

2. FORMAT

```
CLR:ESA:FRC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `FAILED TO SEND MESSAGE` = The request has been denied because the message cannot be sent to the communication module processor (CMP) to process the requested information.
- `FEATURE NOT AVAILABLE` = The request has been denied because the dual ESA for E911 (SFID 108) and/or the dual ESA enhancements special feature (SFID 141) have not been purchased.
- `NOT AN ESA OFFICE` = The request has been denied because the ESAs for the office have not been equipped (E911 OPTION field on RC/V View 8.1 is not ESA).

`PF` = Printout follows. The CLR:ESA output message follows.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The message can not be sent. The communications module processor (CMP) is not available.
- `OTHER REQUEST IN PROGRESS` = Another ESA request is currently in progress.

5. REFERENCES

Input Message(s):

```
OP:ESA
SET:ESA
```

Output Message(s):

```
CLR:ESA
OP:ESA
REPT:ESA
```

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```
SET:ESA
```

Other Manual(s):
235-900-303 *ISDN Application Processor Interface Specification*

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
24.7 (DSL APPLICATION PROCESSOR COMMUNICATION DATA)

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CLR:ESM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the external sanity monitor (ESM) alarm be cleared.

2. FORMAT

```
CLR:ESM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The unit was not equipped or powered up.

`OK` = Good. The request has been received and processed.

5. REFERENCES

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CLR:FANALM-3B

Software Release: 5E15 and later
Command Group: ALARM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a remote reset of the administrative module (AM) fan alarm (FANALM) distribute point be performed. The points are identified by physical location (Format 1) or by logical address (Format 2).

2. FORMAT

```
[1]    CLR:FANALM:UNIT=a,PT=b[-b-b-b];

[2]    CLR:FANALM:GRPN="c",DUPID=d,PT=e[-e-e-e];
```

3. EXPLANATION OF MESSAGE

`a` = Scanner and signal distributor (SCSD) unit number.

`b` = Physical point number on SCSD.

`c` = Name of the logical SCSD group. Logical SCSD group names for fan alarms begin with the prefix FANA. Valid value(s):

```
FANACU0
FANACU1
```

`d` = Duplex identifier.

`e` = Logical point number.

4. SYSTEM RESPONSE

`NG` = No good. SCSD administrator process is not active; no communication with SD points is possible.

`PF` = Printout follows. Followed by the CLR:FANALM-3B output message.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
ALW:SCSD
INH:SCSD
OP:SCSD
```

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Output Message(s):

```
CLR:FANALM-3B
REPT:FAN-SINGLE
REPT:FAN-MULTI
REPT:SCSDC
```

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CLR:FANALM

Software Release: 5E15 and later
Command Group: ALARM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a fan alarm be cleared.

2. FORMAT

```
CLR:FANALM,a[=b];
```

3. EXPLANATION OF MESSAGE

a = Unit to be cleared. Parameter values are. Valid value(s):

- CM = Communications module.
- CNI = Common network interface.
- MFFAN = Miscellaneous frame (CM2 offices only).
- MSGS = Message switch.
- ONTC = Office network and timing complex (CM2 offices only).
- SM = Switching module.
- TMS = Time-multiplexed switch.

b = Valid value(s):

If 'a' **=**	'b' **=**
CM	NULL.
TMS, MSGS or ONTC	Unit number.
SM	SM number.

4. SYSTEM RESPONSE

PF = Printout follows. The CLR:FANALM output message follows.

RL = Retry later (SM case only). Valid value(s):

- REMOTE RESET ALREADY IN PROGRESS = A fan reset operation is already in progress on that SM.

5. REFERENCES

Output Message(s):

```
CLR:FANALM
REPT:ALM
REPT:FAN-FAIL-AS
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

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CLR:FRC-MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Clears the forced configuration of the message switch control unit (MSCU). The maintenance state of the active forced side changes to ACT and the state of the other side changes to OOS MAN RMV.

2. FORMAT

```
CLR:FRC,MSCU;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
SET:FRC-MSCU
```

Output Message(s):

```
CLR:FRC-MSCU
OP:CFGSTAT
SET:FRC-MSCU
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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CLR:FRC-NCOSC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Clears the forced configurations on the network clock oscillator (NCOSC).

One of the following three events may result from this command:
- The side of the NCOSC that is forced goes active if there is no fault detected. The unavailable side goes out of service.
- The side of the NCOSC that is forced goes out of service if a fault is detected. The unavailable side goes active.
- Service on the side of the NCOSC that is forced becomes degraded if faults are found on both sides and the unavailable side goes out of service.

2. FORMAT

```
CLR:FRC,NCOSC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

`PF` = Printout follows. The CLR:FRC-NCOSC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RST:NCOSC
SET:FRC-NCOSC
```

Output Message(s):

```
CLR:FRC-NCOSC
RST:NCOSC
```

MCC Display Page(s):

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1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)

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CLR:FRC-ONTCCOM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Clears the forced configuration on the office network and timing complex common unit (ONTCCOM). The maintenance state of the active forced side changes to 'active major' (ACT MAJ) and the state of the other side changes to 'out-of-service, manual, removed' (OOS MAN RMV).

2. FORMAT

```
CLR:FRC,ONTCCOM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
SET:FRC-ONTCCOM
```

Output Message(s):

```
CLR:FRC-ONTCCOM
OP:CFGSTAT
SET:FRC-ONTCCOM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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CLR:FRC-TRCU3

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

This request is used to clear the "force" on a particular function pack pair of a TRCU3 circuit. There is no force state of a function pair, so this request is accomplished by clearing hardware register on the mate function pack which was set by the force command to make it faulty. This command is needed to facilitate TRCU3 function pack replacement.

2. FORMAT

```
CLR:FRC,TRCU3=a-b-c,{HOST|REMOTE};
```

3. EXPLANATION OF MESSAGE

a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= TRCU Path (TRCUPATH). This is the TRCUPATH connecting a host and remote TRCU3 circuits.
c	= Side. This is the side of the CM which the function pack is connected that is desired to clear the force active.
HOST	"HOST" refers to the TRCU3 at the host location next which connects to the CM.
REMOTE	"REMOTE" refers to the TRCU3 at the remote location which is connected to the optically remoted (switching) module. (ORM).

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request. Refer to the CLR FRC TRCU3 output message.
PF	= Printout follows.
RL	= Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

SET:FRC-TRCU3

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Output Message(s):

```
CLR FRC-TRCU3
SET FRC-TRCU3
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

CLR:FSYS-DIR

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Removes a directory from the file system. The directory must be empty (no files or subdirectories stored under the directory name) before it can be removed.

WARNING: Incorrect use of this input message can result in the removal of needed file system directories.

2. FORMAT

```
CLR:FILESYS,DIR,FN="a";
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the directory to be removed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:FSYS-DIR output message.

5. REFERENCES

Input Message(s):

```
CLR:FSYS-FILE
IN:FSYS-DIR
OP:ST-LISTDIR
```

Output Message(s):

```
CLR:FSYS-DIR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

CRAFT FM 01)

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CLR:FSYS-FILE

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that a file be removed from a directory.

WARNING: Incorrect use of this input message can result in the removal of needed files and processes.

2. FORMAT

```
CLR:FILESYS,FILE,FN="a";
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:FSYS-FILE output message.

5. REFERENCES

Input Message(s):

`OP:ST-LISTDIR`

Output Message(s):

`CLR:FSYS-FILE`
`OP:ST-LISTDIR`

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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CLR:GRC

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) job that is waiting in the queue be canceled. The GRC job still exists but needs to be rescheduled using the SCHED:GRC input message or recent change/verify (RC/V) View 28.1 to be released. If the GRC job has been split, SECT must be provided.

2. FORMAT

```
CLR:GRC,NAME=a[,SECT=b];
```

3. EXPLANATION OF MESSAGE

`a` = GRC name (up to 10 characters).

`b` = GRC section number.

4. SYSTEM RESPONSE

`PF` = Printout follows. The GRC:STATUS output message follows indicating the beginning of the operation.

`NG` = No good. The request was denied. A GRC:ERROR output message will provide the reason for the failure.

5. REFERENCES

Input Message(s):

```
SCHED:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-070-100 *Administration and Engineering Guidelines*

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CLR:HIST

Software Release: 5E15 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Clears out the command history buffer. All previously stored input requests are no longer available and cannot be recalled. CLR:HIST does not affect the status of history recording. Subsequent input commands entered at the terminal will be stored if history recording is allowed.

By default, history recording is allowed when a terminal comes into service.

2. FORMAT

```
CLR:HIST;
```

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

`OK` = Good. The input request was accepted and has been applied.

5. REFERENCES

Input Message(s):

```
ALW:HIST
INH:HIST
OP:HIST
```

Output Message(s):

```
OP:HIST
```

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CLR:HPRI

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

To deactivate the high priority terminal feature. This input message will deactivate the high priority terminal feature and reset the terminal to it's original priority. For additional information, refer to the SET:HPRI input message.

2. FORMAT

```
CLR:HPRI;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. The CLR:HPRI output message will be printed.

`NG` = No good. The input message entered is invalid. May also include:
- `SPECIAL FEATURE NOT AVAILABLE` = Secured feature bit is not turned on.

5. REFERENCES

Input Message(s):

```
OP:HPRI
SET:HPRI
```

Output Message(s):

```
CLR:HPRI
```

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CLR:IMCAT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Invalidates the memory segments of the old input message catalog, forcing the new one to be loaded into the main memory. This message is used during a field update of the input message catalog.

2. FORMAT

```
CLR:IMCAT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `FILE` = File did not open.
- `SEGCODE` = No segment names.
- `SEGMENT` = Segments not marked invalid.

`OK` = Good. Segments are marked invalid.

`PF` = Printout follows. Followed by the CLR:IMCAT output message.

5. REFERENCES

Output Message(s):

`CLR:IMCAT`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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CLR:IODRV

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that option setting be allowed in the input/output processor (IOP) driver to suppress IOP driver messages.

NOTE: Entering this input message without the options turns off all severity levels, handler IDs and classes, but leaves the MSGSAVE flag as is.

2. FORMAT

```
CLR:IODRV[:LVL=a[&a[&a]]][,ID=b[&b[&b...]]][,CLASS=[&c[&c...]]]
[,MSGSAVE];
```

3. EXPLANATION OF MESSAGE

`MSGSAVE` = IOP error messages will not be saved in the IODRVLOG logfile.

`a` = Severity level, where one is the most severe setting and three is the least severe.

`b` = Administrative module (AM) handler identification. Valid value(s):

`ALL`	= Turns on all IDs.
`APH`	= Application protocol handler.
`APPL1-APPL5`	= Reserved for application handlers.
`CIH`	= End user interface handler.
`DUIH`	= Direct user interface handler.
`IOP`	= Input/output driver.
`MAINT`	= Maintenance handler.
`MTH`	= Magnetic tape handler.
`NPH`	= Network protocol handler.
`SCSDH`	= Scanner and signal distributor handler.
`SDLH`	= Synchronous data link handler.
`SPH`	= Session protocol handler.
`TPH`	= Transport protocol handler.

`c` = 32 classes available, but none are assigned.

4. SYSTEM RESPONSE

`NG` = No good. Conflict with system status.

`PF` = Printout follows. Followed by the CLR:IODRV output message.

5. REFERENCES

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Input Message(s):

```
OP:IODRV
SET:IODRV
```

Output Message(s):

```
CLR:IODRV
OP:IODRV
```

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CLR:IOMEM

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Release a file from the input/output drivers cache memory. This is used during the installation of a new version of a file that could have been cached in the memory of the IODRV. Upon successful completion, the next time the file is needed by the IODRV, the file will be read from the disk.

2. FORMAT

```
CLR:IOMEM:FN "a"!
```

3. EXPLANATION OF MESSAGE

a	full pathname that specifies the file to be released from the IODRV's cached memory.

4. SYSTEM RESPONSE

PF	Printout follows. Followed by a CLR:IOMEM output message.

5. REFERENCES

Output Message(s):

CLR:IOMEM

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CLR:ISOL-CM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the communication module (CM) be re-synchronized with (unisolated from) the administrative module (AM). This request configures the message switch control unit (MSCU) so that it no longer operates independent of the AM and refreshes CM status maintained in the AM with the actual hardware status obtained from the CM. The re-synchronization is performed conditionally and major errors will cause the AM to attempt to re-isolate the CM.

A complete AM/CM initialization is required to recover from most duplex hardware failures.

This input message is only applicable to offices having CM2-vintage communication modules.

2. FORMAT

```
CLR:ISOL,CM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid, but could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the CLR:ISOL-CM output message.

5. REFERENCES

Input Message(s):

`SET:ISOL-CM`

Output Message(s):

`CLR:ISOL-CM`
`SET:ISOL-CM`

Input Appendix(es):

`APP:CM-IM-REASON`

Other Manual(s):

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235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*

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CLR:ISOL-SM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Takes one or more switching modules (SMs) out of isolation. If the SM is a remote switching module (RSM), then the associated control-carrying host digital facility interfaces (HDFIs) at the host switching module (HSM) will also be enabled.

2. FORMAT

```
CLR:ISOL,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or lower limit of a range of SM number.

`b` = Upper limit of a range of SM number.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows. Followed by the CLR:ISOL-SM output message.

5. REFERENCES

Input Message(s):

```
SET:ISOL-SM
```

Output Message(s):

```
CLR:ISOL-SM
```

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CLR:ISUP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the trapping and printing of the intergrated services digital network (ISDN) user part (ISUP) events be turned off. These events will be reported in the REPT:ISUP output message.

2. FORMAT

```
CLR:ISUP=ATPUUI;
```

3. EXPLANATION OF MESSAGE

No variables.

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

4. SYSTEM RESPONSE

`OK` = Good. The request was received and the trap was deactivated.

5. REFERENCES

Input Message(s):

```
OP:ST-ISUP
SET:ISUP
```

Output Message(s):

```
OP:ST-ISUP
REPT:ISUP
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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CLR:LAMPS

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that exit pilot lamps (alarms) be extinguished.

2. FORMAT

```
CLR:LAMPS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Output Message(s):

```
CLR:LAMPS
REPT:ALM
```

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CLR:LIB

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Clears a library program from the scratch area in the switching module (SM), and another team to use the SM for library program testing. This input message will not clear a running library program.

2. FORMAT

```
CLR:LIB:TEAM=a[,AM][{,SM=b|,SM=c&&d}];
```

3. EXPLANATION OF MESSAGE

`a` = The team number to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.

`b` = SMs that this message should be directed to. The team specified must have a library program running in the SM(s) listed. There can be up to five SM numbers listed. A range could be used instead, as indicated.

`c` = First SM in the range '`c`' to '`d`'.

`d` = Last SM in the range '`c`' to '`d`'.

NOTE: If neither the AM or any SMs are specified, the CLR:LIB message is sent to the AM and all SMs with clients loaded under the same team as that specified.

4. SYSTEM RESPONSE

`NG` = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

`PF` = Printout follows. Message has been sent to the SMs/AM or team specified.

5. REFERENCES

Input Message(s):

```
CLR:LIB
LOAD:LIB
```

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CLR:M5-A

Software Release: 5E15 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.

2. FORMAT

```
CLR:M5,PKG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Package. Valid value(s):

- `ASPTF` = Advanced services platform toll free counts.
- `BICCMEAS` = Bearer independent call control measurements.
- `BNP` = Basic number portability measurements.
- `CCS` = Common channel signaling (CCS) general service measurements.
- `CCSP` = CCS special service measurements.
- `CGAP` = Code control.
- `CLCT` = Network management control counts.
- `CLDIR` = Call direction.
- `DLYR` = Delayed readiness.
- `EON5` = End office nodal phase 5.
- `GETSHPC` = Government emergency telecommunications service high probability of call completion.
- `HPCBICC` = High probability of call completion BICC group.
- `HPCTG` = High probability of call completion trunk group.
- `IECSST` = Inter-exchange carrier start signal timeout counts.
- `IECSTG` = Inter-exchange carrier shared trunk group counts.
- `IMA` = Additional ineffective machine attempts.
- `LN` = Leased network action point.
- `LNCU` = Leased network office-wide measurements for critical users.
- `LNNODE` = Leased network node-to-node measurements.
- `MLNC` = Failure to match and no circuit.
- `NS` = Number services.
- `OVRLD` = Overload or congestion.
- `RRC` = Manual reroute trunk group controls.
- `SDN` = Action control point for software defined networks.
- `SVC` = Critical service circuits.
- `TGFLAG` = Trunk group flags.
- `TGMEAS` = Basic trunk group.
- `WBTGMEAS` = Wideband trunk group.

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4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the CLR:M5 output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

OP:M5
OP:M5PKG
SET:M5

Output Message(s):

CLR:M5

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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CLR:M5-B

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.

2. FORMAT

```
CLR:M5,PKG=a;
```

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):

- ASPTF = Advanced services platform toll free counts.
- BICCMEAS = Bearer independent call control measurements.
- BNP = Basic number portability measurements.
- CCS = Common channel signaling (CCS) general service measurements.
- CCSP = CCS special service measurements.
- CGAP = Code control.
- CLCT = Network management control counts.
- CLDIR = Call direction.
- CMIX = Call mix.
- DLYR = Delayed readiness.
- EON5 = End office nodal phase 5.
- GETSHPC = Government emergency telecommunications service high probability of call completion.
- HPCBICC = High probability of call completion BICC group.
- HPCTG = High probability of call completion trunk group.
- HTRDDC = Hard to reach measurements.
- ICMP = Internet protocol/internet control message protocol (IP/ICMP) measurements.
- IECSST = Inter-exchange carrier start signal timeout counts.
- IECSTG = Inter-exchange carrier shared trunk group counts.
- IMA = Additional ineffective machine attempts.
- LN = Leased network action point.
- LNCU = Leased network office-wide measurements for critical users.
- LNNODE = Leased network node-to-node measurements.
- MLNC = Failure to match and no circuit.
- NS = Number services.
- OVRLD = Overload or congestion.
- PKTGRP = Packet group measurements.
- RRC = Manual reroute trunk group controls.
- SCTP = Stream control transmission protocol measurements.
- SDN = Action control point for software defined networks.
- SIPT = Session initiated protocol for telephony measurements.

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SL	= Signaling link.
SVC	= Critical service circuits.
TGFLAG	= Trunk group flags.
TGMEAS	= Basic trunk group.
WBTGMEAS	= Wideband trunk group.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the CLR:M5 output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
OP:M5
OP:M5PKG
SET:M5
```

Output Message(s):

```
CLR:M5
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION
109 OVERLOAD

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CLR:MCTSI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Clears the forced condition from the module controller time-slot interchange (MCTSI) in the switching modules (SM) specified. This message uses administrative module intervention (AMI) to access the SM.

2. FORMAT

```
CLR:MCTSI=a[&&b],FRC;
```

3. EXPLANATION OF MESSAGE

`a` = SM number or lower limit for a range of SM number.

`b` = Upper limit for a range of SM number.

4. SYSTEM RESPONSE

`PF` = Printout follows. The CLR:MCTSI output message follows.

5. REFERENCES

Output Message(s):

`CLR:MCTSI`

MCC Display Page(s):

(INHIBIT AND RECOVERY CONTROL)
(MCTSI/DLI)
(MCTSI/RLI)

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CLR:MELNK

Software Release: 5E20(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that either a reset of the client password to the *Flexent®* operations & management platform (OMP-FX) to the default value or a reset of the secure shell (SSH) public key from the OMP-FX to null be done.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
CLR:MELNK=a-b-c,OMP,d;
```

3. EXPLANATION OF MESSAGE

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Module controller/time slot interchange (MCTSI)-based ethernet pipe (MEPIPE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = MCTSI-based ethernet link (MELNK) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = MELNK application option to clear. Valid value(s):

`PASSWD` = Client password to the OMP-FX.

`SSHKEY` = SSH public key from the OMP-FX.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO SUCH SM` = Input message specified an SM that does not exist.
- `SM UNEQ` = Input message specified an SM that is unequipped.
- `UNIT UNEQ` = Input message specified an MELNK that is not equipped.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. May also include:

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– SM ISOLATED = Cannot communicate with requested SM.

PF = Printout follows. Followed by the CLR:MELNK output message.

5. REFERENCES

Output Message(s):

CLR:MELNK

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-200-100 *Flexent®/AUTOPLEX® Wireless Networks Applications OA&M Manual*

MCC Display Page(s):
1204 MELNK STATUS

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CLR:MGDSC

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests to clear all brevity control message discard (MGDSC) counts and throttling message discard counts for administrative module (AM) operational kernel process, a communication module processor (CMP), or a switching module (SM). The brevity control message discard count contains total number of messages being discarded due to brevity control for the day or since the last CLR:MGDSC input message has been entered. The message throttling discard count contains total number of messages being discarded due to queue overflow for the day or since the last CLR:MGDSC input message has been entered. The discard count for each message class is also automatically reset to zero daily at 23:58:00, two minutes before midnight.

2. FORMAT

```
CLR:MGDSC,{AM|CMP=a|SM=b};
```

3. EXPLANATION OF MESSAGE

`a` = CMP number.

`b` = SM number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `CMP IS NOT AVAILABLE` = The request cannot be executed now due to the requested CMP is either unavailable or not equipped.
- `SM IS NOT AVAILABLE` = The request cannot be executed now due to the requested SM is either unavailable or not equipped.

`OK` = Good. Request was accepted. All message discard counts have been reset to zero.

5. REFERENCES

Input Message(s):

```
OP:MGDSC
```

Output Message(s):

```
OP:MGDSC
```

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CLR:MHD-MAEC

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

To clear a given moving head disk's (MHD's) media access error counter (MAEC). The MAEC for a given MHD is set to zero.

A MAEC counts all errors which could be classified as bad disk blocks (media defects). If upon investigation, some or all of these errors are attributed to specific bad disk blocks, the bad disk blocks should be mapped out using the LOAD:MHD input message, followed by the INIT:MHD input message. This procedure will reset the specified MHD's MAEC back to zero.

If upon investigation, none of these errors are attributed to media defects, then mapping bad blocks and formatting the disk is not necessary. In this case, the CLR:MHD-MAEC input message is used to reset the specified MHD's MAEC back to zero.

2. FORMAT

```
CLR:MHD=a:MAEC;
```

3. EXPLANATION OF MESSAGE

`a` = MHD member number.

4. SYSTEM RESPONSE

`PF` = Followed by the CLR:MHD-MAEC output message.

5. REFERENCES

Input Message(s):

```
INIT:MHD
LOAD:MHD
VFY:MHD
```

Output Message(s):

```
CLR:MHD-MAEC
REPT:DKDRV
```

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CLR:MHTR

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests clearance of manual hard-to-reach (MHTR) destinations.

Format 1 clears all the destinations from the HTR list.

Format 2 clears the destination specified by code and/or carrier.

2. FORMAT

```
[1]    CLR:MHTR;

[2]    CLR:MHTR,{CODE=a[,CARR=b]|CARR=b};
```

3. EXPLANATION OF MESSAGE

`a` = Destination code (1 to 10 digits). (Valid character set 0-9);

`b` = The feature group D carrier (0 - 9999).

4. SYSTEM RESPONSE

`NG` = Not good. Valid value(s):
- `FEATURE NOT AVAILABLE` = The hard-to-reach feature is not available

`PF` = Printout follows. Followed by the CLR:MHTR output message.

`RL` = Retry later. Valid value(s):
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:MHTR
OP:HTR
```

Output Message(s):

```
CLR:MHTR
```

Other Manual(s):

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235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION

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CLR:MINMODE-CNI

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Removes (clears) the common network interface (CNI) system from min-mode. This message cancels the effect of the SET:MINMODE-CNI input message. When the CNI system is taken out of minmode, a CNI full initialization (FI) (level 4) will be performed.

NOTE: The CNI system can be taken out of min mode only if the administrative module (AM) is not in min mode.

2. FORMAT

```
CLR:MINMODE,CNI,LVL4;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request was unsuccessful because:
- The office is not equipped with CNI.
- The AM is in min mode.
- Software level 5 (S5) initialization of CCSINIT failed.
- Some internal error occurred.

PF = Printout follows. The message has been accepted and an output message will follow.

5. REFERENCES

Input Message(s):

SET:MINMODE-CNI

Output Message(s):

INIT:CNI-LVL

MCC Display Page(s):

(CNI FRAME AND CCS LINK STATUS DISPLAY PAGE)

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CLR:MINMODE-SM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears the selected switching modules (SMs) from minimum mode (minmode) by resetting the appropriate SM inhibits and performing a full initialization. The SM inhibits which are reset as a result of this message are minmode, software error checks, hardware error checks, application routine exercises, and application routine audits. This message cancels the effect of the SET:MINMODE-SM input message.

WARNING: This message will cause all selected modules to initialize even if the modules were not in minmode prior to the initialization.

2. FORMAT

```
CLR:MINMODE,SM=a[&&b],FI[,PUMP|,NPUMP|,BPUMP][,LSM][,HSM][,RSM][,ORM]
[,TRM];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`BPUMP` = Request a full SM pump using the backup pump function (SI or FI). This pump uses the control time slots (no special hardware) and may succeed when a normal pump fails; however, it is at least 16 times slower than the normal pump. This option should be used on a pump peripheral controller (PPC) duplex failure of the administrative module (AM) peripheral hardware or failure of the bootstrapper hardware in the SM.

`FI` = Full initialization (clear all stable calls).

`NPUMP` = Request a full SM pump using the normal pump function (SI or FI).

`PUMP` = Request a full SM pump at the requested level (SI or FI). A normal pump (NPUMP) will be used unless a failure occurs, in which case a backup pump (BPUMP) will be selected automatically. This is the recommended option to request a full pump.

`a` = SM number, or lower limit of a range of SM number.

`b` = Upper limit of the range of SM number.

4. SYSTEM RESPONSE

`IP` = In progress. The message was accepted and the request is in progress.

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NG = No good. The message was not accepted because:
- An illegal SM number or range combination was specified.
- An illegal initialization level was specified.
- An illegal option was specified; only PUMP, NPUMP, or BPUMP are allowed, and only with an FI.

5. REFERENCES

Input Message(s):

```
SET:MINMODE-SM
```

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CLR:MON

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the specified operating system for distributed switching (OSDS) monitor data collection areas be set to zero.

2. FORMAT

```
CLR:MON,{AM|SM=a|CMP=b-c},{CTL|PTA|DPA|ALL};
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = Set the entire monitor buffer area to zero.

`CTL` = Set the control data area of the monitor buffer to zero.

`DSP` = Set the dispatch area of the monitor buffer to zero.

`PTA` = Set the count and time data area of the monitor buffer to zero.

`a` = Switching module (SM) number.

`b` = Message switch side.

`c` = Communications module processor (CMP) number.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows.

`RL` = Retry later. System resource shortage.

5. REFERENCES

None.

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CLR:MWI

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a Message Service System (MSS) message waiting indicator (MWI) be deactivated for a given seven-digit directory number (DN).

2. FORMAT

```
CLR:MWI,DN=a[,FNAME=b];
```

3. EXPLANATION OF MESSAGE

`a` = The seven-digit DN to be validated.

`b` = The MSS feature on the seven-digit DN. If multiple MSS features are assigned to this DN, the feature must be specified to avoid incorrect feature deactivation.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`– MUST ENTER A 7 DIGIT DN` = The DN field has more or less than seven digits in it. The DN field must contain digits only.

`RL` = Retry later. The message was not accepted because of a temporary lack of available resources.

`PF` = Printout follows. The DN validation request was accepted and the CLR:MWI output message follows.

5. REFERENCES

Output Message(s):

`CLR:MWI`

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CLR:NMNODES

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that node(s) be removed from the five-minute network management node schedule (NMNODES). A node is identified by a common language location identifier (CLLI) code and the voice/data indicator.

2. FORMAT

```
CLR:NMNODES[,NODES=a-b[-a-b][-a-b][-a-b]];
```

3. EXPLANATION OF MESSAGE

`a` = CLLI code. If no node identifier has been entered the whole node schedule (NMNODES) will be cleared.

`b` = Voice/data indicator. Valid value(s):
`D` = Data indicator.
`V` = Voice indicator.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:NMNODES output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:NMNODES
OP:NMNODES
```

Output Message(s):

```
CLR:NMNODES
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-190-115 *Local and Toll System Features*

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MCC Display Page(s):

130 (NM EXCEPTION)

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CLR:NMSCH

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that trunk groups be removed from the network management (NM) schedule (SCH). The NM schedule is a list of trunk groups of interest to network managers.

2. FORMAT

```
CLR:NMSCH[,TG-a[-a][-a][-a][-a][-a][-a]];
```

3. EXPLANATION OF MESSAGE

`a` = Valid trunk group number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:NMSCH output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ASGN:NMSCH`
`OP:NMSCH`

Output Message(s):

`CLR:NMSCH`

Other Manual(s):
235-100-125 *System Description*

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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CLR:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the manually set automatic protection switch (APS) state of an optical carrier - level 3 (OC3) facility be cleared.

WARNING: If clearing of the APS state results in a switch, transient errors on the facilities will occur.

2. FORMAT

```
CLR:OC3=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the CLR:OC3 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
SET:OC3
```

Output Message(s):

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```
CLR:OC3
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3 STATUS

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CLR:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the manually set automatic protection switch (APS) state of an optical carrier - level 3 concatenated (OC3C) facility be cleared.

WARNING: If clearing of the APS state results in a switch, transient errors on the facilities will occur.

2. FORMAT

```
CLR:OC3C=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the CLR:OC3C output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`SET:OC3C`

Output Message(s):

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```
CLR:OC3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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CLR:ODDBKUP

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Clears the office-dependent data (ODD) backup schedule set by a previous BKUP:ODD message. The ODD backup scheduled request will be cleared only if the administrative module (AM), communications module processor (CMP), and/or switching module (SM) non-redundant ODD (NRODD) range and/or SM redundant ODD (RODD) specified in the input request matches exactly those in the scheduled request(s). For example, if the scheduled request is nrodd=2&&25, then the clear request has to be nrodd=2&&25. The default is to clear all the scheduled requests.

2. FORMAT

```
CLR:ODDBKUP[,AM][,CMP=a[&&b]][,NRODD=c[&&d]][,RODD[=c]];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = CMP number or the lower limit of a range of CMP numbers.

`b` = Upper limit of range of CMP numbers.

`c` = Switching module (SM) number or the lower limit of a range of SM numbers.

`d` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID CMP RANGE` = No good. The input request is not valid because of an invalid CMP range.
- `INVALID SM RANGE` = The input request is not valid because of an invalid SM range.

`PF` = Printout follows. The request was accepted. The CLR:ODDBKUP output message follows.

5. REFERENCES

Input Message(s):

```
ABT:ODDBKUP
BKUP:ODD
OP:BKUPSTAT
STP:ODDEVOL
```

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Output Message(s):

```
CLR:ODDBKUP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance.*

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CLR:OP-ALM-ALL

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that the data delivery bits for the OP:ALM-ALL input message feature be cleared, unconditionally. This does not clear any alarms. Use only when it is suspected that the data delivery bits are hung up preventing the use of the OP:ALM-ALL, OP:CGA, and OP:RT-ALM input messages.

NOTE: If this message is requested while a valid instance of OP:ALM-ALL is still in progress, the first instance of OP:ALM-ALL will abort and output a REPT:PTRACE message.

2. FORMAT

```
CLR:OP:ALM,ALL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request has been accepted.

`RL` = Retry later. May also include:
- `ALREADY IN PROGRESS` = No OP ALM ALL MANUAL TERMINATION message prints.
- `OP ALM ALL CURRENTLY IN PROGRESS`

5. REFERENCES

Input Message(s):

```
OP:ALM
OP:CFGSTAT
OP:CGA
OP:MSUSP
OP:RT-ALM-ALL
STP:OP-ALM-ALL
```

Output Message(s):

```
OP:ALM-ALL
OP:ALM-RBPSC
OP:ALM-RIBMSC
OP:ALM-RISLUSC
OP:CFGSTAT-CM
OP:CGA
```

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```
OP:MSUSP
OP:RT-ALARM
REPT:PTRACE
```

Other Manual(s):

363-200-101 *DCLU Integrated SLC® Carrier System*
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

105/106 (BLDG/POWER & ALARM CNTRLS)
115 (COMMUNICATION MODULE SUMMARY)
116 (MISCELLANEOUS)
118 (CNI FRAME AND CCS LINK STATUS)
119 (MISCELLANEOUS ALARMS)
1010,X (SM X STATUS)

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CLR:PB

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the position busy (PB) indicator be cleared at certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) assigned to receive incoming 101 test line calls. The 101 test line calls can now terminate at this trunk work station (TWS) talk and monitor (T&M) phone.

2. FORMAT

```
CLR:PB[,ID=a];
```

3. EXPLANATION OF MESSAGE

`a` = ID of the TLWS or CTTU at which position busy indicator is to be cleared. Valid value(s):

`c` = CTTU.
`l` = Local.
`r` = Remote.

If no ID is specified, all LOCAL positions are set to the available state.

4. SYSTEM RESPONSE

`NA` = No acknowledgement. The request has not been acknowledged. It is probable the request has been lost.

`PF` = Printout follows. The request has been accepted. The CLR:PB output message follows.

`RL` = Retry later. The request has been denied due to system overload.

5. REFERENCES

Input Message(s):

```
SET:PB
OP:PB
```

Output Message(s):

```
CLR:PB
OP:PB
```

Output Appendix(es):

```
APP:TLWS
```

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Other Manual(s):
235-100-125 *Switch System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1 (OFFICE PARAMETERS (MISCELLANEOUS))
14.0 (VERIFY 101 TEST LINE)

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CLR:PERPH-SM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the verbose status in a single switching module (SM) or a range of SMs be cleared. When the verbose status is CLEAR, peripheral fault recovery (PFR) will only output messages that indicate that a peripheral (PERPH) error has caused recovery actions on a circuit. When the verbose status is SET, PFR will output transient peripheral error messages which indicate that no recovery action has occurred (that is, "ANALYSIS ONLY"). Output messages may be logged or printed depending on the message class for each unit type.

2. FORMAT

```
CLR:PERPH,SM=a[&&b],VERBOSE;
```

3. EXPLANATION OF MESSAGE

`a` = SM number or lower limit of range of SM number.

`b` = Upper limit of range of SM number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM DOES NOT EXIST` = The request has been denied, SM number does not match any equipped SM.

`OK` = Good. The input message has been completed.

`RL` = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:LPS
SET:PERPH-SM
```

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CLR:PSALNK

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the manually set automatic protection switch (APS) state of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) be cleared.

2. FORMAT

```
CLR:PSALNK=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ATM link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of the Input Messages manual.

`PF` = Printout follows. Followed by the CLR:PSALNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
SET:PSALNK
SW:PSALNK
```

Input Appendix(es):

```
APP:RANGES
APP:SYS-RESPONSE
```

Output Message(s):

Copyright ©2007 Lucent Technologies

```
CLR:PSALNK
```

MCC Display Page(s):
1187,y,x PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)

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CLR:PSLNK-A

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the manually set automatic protection switch (APS) state of the packet switch unit (PSU) link (PSLNK) be cleared.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

NOTE: For gateway protocol handlers (PH) the only valid input message format is #4. Other formats will not yield the expected results.

2. FORMAT

```
[1]    CLR:PSLNK=a-b;

[2]    CLR:PSLNK,PSUCA=a,FARCA=b;

[3]    CLR:PSLNK,PSU=c-0,FARCA=b;

[4]    CLR:PSLNK,PSUCA=a;
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link.

`b` = Far PSU community address of the PSU link.

The far end CA must be zero if the PSU link is connected to an asynchronous transfer mode (ATM) switch in a point-to-multipoint configuration network.

`c` = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by the CLR:PSLNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
SET:PSLNK
SW:PSLNK
```

Output Message(s):

```
CLR:PSLNK
```

MCC Display Page(s):

PSU LINKS STATUS

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CLR:PSLNK-B

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the manually set automatic protection switch (APS) state of the packet switch unit (PSU) link (PSLNK) be cleared.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

2. FORMAT

```
[1]    CLR:PSLNK=a-b;
       _____________________________________________________________

[2]    CLR:PSLNK,PSUCA=a,FARCA=b;
       _____________________________________________________________

[3]    CLR:PSLNK,PSU=c-d,FARCA=b;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Far PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

NOTE: The far end CA must be zero if the PSU link is connected to an asynchronous transfer mode (ATM) switch in a point-to-multipoint configuration network.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSU number Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

`PF` = Printout follows. Followed by the CLR:PSLNK output message.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
SET:PSLNK
SW:PSLNK
```

Output Message(s):

```
CLR:PSLNK
```

Input Appendix(es):

```
APP:RANGES
APP:SYS-RESPONSE
```

MCC Display Page(s):
1187,y PSU LINKS STATUS where y=PSU number

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CLR:PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Clears the forced condition from the Packet Switch Unit (PSUCOM) specified. This command is only valid if the requested PSU is marked a Critical PSU in recent Change.

2. FORMAT

```
CLR:PSUCOM=a-b,FRC;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = PSUCOM unit number (0).

`FRC` = Forced Active state.

4. SYSTEM RESPONSE

`NG` No good. May also include:
- `FORCE NOT ALLOWED ON NON-CRITICAL PSU` = The requested PSUCOM is not marked a Critical PSU in Recent Change.
- `PSU IS NOT FORCED` = The requested PSUCOM is not forced.

`PF` = Printout follows. The CLR:PSUCOM output message follows.

5. REFERENCES

Output Message(s):

`CLR:PSUCOM`

MCC Display Page(s):

1186 (PSU NETWORK)

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CLR:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Clears the forced condition from the packet switch unit (PSUCOM) specified.

2. FORMAT

```
CLR:PSUCOM=a-b,FRC;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = PSUCOM unit number.

`FRC` = Forced active state.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `PSU IS NOT FORCED` = The requested PSUCOM is not forced.

`PF` = Printout follows. Followed by the CLR:PSUCOM output message.

5. REFERENCES

Output Message(s):

`CLR:PSUCOM`

MCC Display Page(s):
1186,y PSU NETWORK (where y=PSU number)

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CLR:PTN

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that partitions on a specified disk be cleared (initialized with zeroes). The partitions to be cleared are determined from a specfile (default /etc/clearspec). Both the disk specified and its mate should be active before this message is entered.

This input message will be used by the applications that have AMA partitions (on removable media disk packs) which need to be cleared whenever a disk copy is generated.

2. FORMAT

```
CLR:PTN;MHD=a[:SPECF="b"];
```

3. EXPLANATION OF MESSAGE

`a` = Identifies of disk unit to be initialized with zeroes.

`b` = Pathname of specification file containing list of partition names that will be initialized with zeroes. Default will be /etc/clearspec.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows.

5. REFERENCES

Output Message(s):

`CLR:PTN`

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CLR:PUPAGE

Software Release: 5E15 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Requests that the software update installation page (BWM Installation) or program update (PU) maintenance page be cleared.

2. FORMAT

```
CLR:PUPAGE=HMa;
```

3. EXPLANATION OF MESSAGE

a	= Page definition. Valid value(s):
95	= Program update maintenance page.
96	= BWM installation page.

4. SYSTEM RESPONSE

OK	= Good. The message was accepted and the action was completed.

5. REFERENCES

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (BWM INSTALLATION)

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CLR:RT-FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a far end loop process (FELP) or a protection (PROT) configuration request be cleared for a particular digital signal level one (DS1) facility (FAC).

If the request to be cleared has not been set for the specified facility, this request will have no effect.

2. FORMAT

```
CLR:RT,FAC=a-b,{FELP|PROT[,UCL]};
```

3. EXPLANATION OF MESSAGE

`FELP` = Configure a DS1 FAC to the looped state at the RT (for example, a "virtual pinjack").

`PROT` = Switch from the specified DS1 FAC to the protection line.

`UCL` = Unconditionally take FAC off PROT (only valid for TR303 RTs).

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RT DS1 FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. The CLR:RT-FAC output message follows.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now because the SM is isolated from the administrative module (AM).

5. REFERENCES

Input Message(s):

```
INH:RT-FAC
SET:RT-FAC
```

Output Message(s):

```
CLR:RT-FAC
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)

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CLR:RT-FACOFFN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the disabling of the option of having the switching module (SM) status indicator updated to off-normal (OFFN) when a remote terminal (RT) T1 is in an off-normal state. Specifically, it will not be updated to "RT PLS" (RT protection line switch) when a T1 facility (FAC) goes on protection, or to "CKT OOS" (circuit out-of-service) when a T1 facility goes OOS.

2. FORMAT

```
CLR:RT,FACOFFN;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted and the requested action was completed.

`RL` = Retry later. The system failed to read a database global parameter.

5. REFERENCES

Input Message(s):

```
SET:RT-FACOFFN
OP:RT-FACOFFN
```

Output Message(s):

```
OP:RT-FAC-OFF
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

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CLR:RUTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears all breakpoints in the specified common network interface (CNI) ring node.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

```
CLR:RUTIL=a-b, AP;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The CLR:RUTIL output message follows.

5. REFERENCES

Input Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL
```

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Output Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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CLR:RUTILFLAG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears a specific breakpoint in the specified common network interface (CNI) ring node.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

```
CLR:RUTILFLAG=a-b,AP:BP=c;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Specific breakpoint to be cleared.

4. SYSTEM RESPONSE

`PF` = Printout follows. The CLR:RUTILFLAG output message follows.

5. REFERENCES

Input Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
```

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```
WHEN:RUTIL
```

Output Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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CLR:SCMG

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the prohibited status of signaling connection control part (SCCP) Subsystems at a destination point code (DPC) be cleared.

2. FORMAT

```
CLR:SCMG,SM=a,DPC=b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = DPC.

4. SYSTEM RESPONSE

`NG` = No good. The message is not recognized. Repeat the request.

`PF` = Printout follows. Followed by the CLR:SCMG output message.

5. REFERENCES

Output Message(s):

```
CLR:SCMG
```

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CLR:SILC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk group be removed from selective incoming load control (SILC) treatment with an option to clear the entire list.

2. FORMAT

```
CLR:SILC[,TG=a];
```

3. EXPLANATION OF MESSAGE

`a` = Valid trunk group number. The default is all trunk groups on the SILC list.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:SILC output message.

`RL` = Retry later.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:SILC
OP:SILC
```

Output Message(s):

```
CLR:SILC
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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CLR:SIPDMP

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests to clear the session initiation protocol (SIP) per error counts stored in the SIP protocol handler (SIPPH). If PCRGRP is requested, the serving PH in the processor group (PCRGRP) will be cleared.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

2. FORMAT

```
CLR:SIPDMP,{PCRGRP=a-b | PSUPH=a-c-d-e};
```

3. EXPLANATION OF MESSAGE

a = SM number.

b = SIP PH processor group number on SIP global switching module (GSM).

c = Packet switching unit (PSU) number.

d = Shelf number.

e = SIP PH physical number.

4. SYSTEM RESPONSE

NG = No good. May also include:
- IMPROPER PH STATE = The PH is not in its proper state.
- INVALID INPUT DATA = The request is invalid.
- NO SERVING SIP PH = Requested SIP PH processor group number has no serving SIP PH.
- NOT A SIP GSM = Requested switching module number is not a SIP GSM.
- PCRGRP UNEQUIPPED = Requested SIP PH processor group number is not provisioned on the specified GSM.
- PSUPH OOS = Requested SIP PH is out of service.
- PSUPH UNEQUIPPED = Requested SIP PH number is not provisioned in the office.

PF = Followed by the CLR:SIPDMP output message.

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RL = Retry later. May also include:
- GSM UNAVAILABLE = The requested GSM is not ready.
- OSSENDMSG FAILURE = The operating system could not send the request to the appropriate process.

5. REFERENCES

Input Message(s):

OP:SIPDMP

Output Message(s):

OP:SIPDMP
CLR:SIPDMP

Input Appendix(es):

APP:RANGES

RC/V View(s):

5.80	SIP-T GLOBAL SM
33.16	SIP-T PROCESSOR GROUP

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CLR:SRST-DPC

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears the status of a route making it available, and stops the signaling route set test (SRST) for the route. This is used to reduce the amount of unnecessary signaling network management message traffic for primary or alternate routes.

WARNING: Use of this message may be service affecting.

2. FORMAT

```
[1]    CLR:SRST:DPC=a-b[-c][:LS=d];

[2]    CLR:SRST:DPC=a-e-f[-c][:LS=d];
```

3. EXPLANATION OF MESSAGE

`a` = Destination point code (DPC) network identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DPC network cluster identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DPC member identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Link set. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Region identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Cluster identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = The message was not recognized. Repeat the request.

`PF` = Printout follows. The request was received and will be acted on. The CLR:SRST output message follows.

`RL` = Retry later. System resources are unavailable to execute this input message now.

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5. REFERENCES

Output Message(s):

```
CLR:SRST
```

Input Appendix(es):

```
APP:RANGES
```

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CLR:SSTR

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a single service selective trunk reservation (SSTR) control be cleared on a specified trunk group.

2. FORMAT

```
CLR:SSTR,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:SSTR output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources were not available.

5. REFERENCES

Input Message(s):

```
ASGN:SSTR
OP:SSTR
```

Output Message(s):

```
CLR:SSTR
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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CLR:SSTROVRD

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that any service selective trunk reservation (SSTR) inhibit override that was set as the result of a SET:SSTROVRD input message be cleared and all SSTR per-trunk-group inhibits be restored to their original state.

2. FORMAT

```
CLR:SSTROVRD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:SSTROVRD output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

```
SET:SSTROVRD
OP:SSTR
```

Output Message(s):

```
CLR:SSTROVRD
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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CLR:TGC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that network management (NM) trunk group controls (TGCs) of a given control type be removed.

2. FORMAT

```
CLR:TGC[,TG=a],CNTL=b[,IRR=c];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number. The default is all trunk groups in the office.

`b` = Control type. Valid value(s):

`CANT`	= Manual cancel-to control.
`SKIP`	= Manual skip control.
`CRO`	= Manual cancel reroute control.
`RR`	= Manual reroute control.
`CANF`	= Manual cancel-from control.

`c` = Immediate reroute. Valid value(s):

`N`	= No (default).
`Y`	= Yes.
Note:	IRR can be specified only a trunk group number has been specified and the control type is RR.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):

- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the CLR:TGC output message.

`RL` = Retry later. Valid value(s):

- `RESOURCE SHORTAGE` The necessary resources are not available.

5. REFERENCES

Input Message(s):

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```
SET:TGC
SET:RR
OP:TGC
```

Output Message(s):

```
CLR:TGC
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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CLR:TR

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a single trunk reservation (TR) control be cleared on a specified trunk group.

2. FORMAT

```
CLR:TR,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number that has a TR control assigned.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:TR output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

`ASGN:TR`
`OP:TR`

Output Message(s):

`CLR:TR`

Other Manual(s):
235-190-101 *Business and Residence Modular Features*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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CLR:TRKDP

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Removes trunk groups displayed in the TRUNK block of the defense switched network (DSN) network management (NM) exception page (page 129) from display boxes; however it keeps the trunk groups in the NM schedule. This TTY message is valid only for DSN switches.

2. FORMAT

```
CLR:TRKDP,{COL=a | ROW=b | COL=a, ROW=b};
```

3. EXPLANATION OF MESSAGE

`a` = Column number (1-6).

`b` = Row number (1-4).

The TRUNK block of the DSN NM Exception Page displays traffic status and maintenance usages of trunk groups selected from the NM schedule. A display box in the TRUNK block identified by a column/row pair displays a trunk group number and its traffic and maintenance information.

If '`a`' is not given, trunk groups displayed on the given column are erased.

If '`b`' is not given, trunk groups displayed on the given row are erased.

If both '`a`' and '`b`' are given, the trunk group displayed on the given column and row is erased.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID PARAMETER` = Invalid column and/or row number.

`OK` = Good. The request was accepted and completed, trunk groups displayed in specified boxes are erased.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

`ASGN:DPSCH`

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```
CLR:NMSCH
OP:NMSCH
```

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

130 (DSN NM EXCEPTION)
109 (OVERLOAD)

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CLR:TRN

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all active office-dependent data (ODD) database transactions be cleared in the administrative module (AM), the communication module processor (CMP) and all switching modules (SMs). The CLR:TRN may cause MEMMAN, TRNDC, OPNDC and other audit errors to report. The audits are recovering resources which were purged with the CLR:TRN. See the Audits manual for more details on the audit error reports.

WARNING: This message may cause recent change activity to fail. In addition, it may cause the transactions in progress to fail including BKUP:ODD and EXC:SODD processes.

2. FORMAT

```
CLR:TRN;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Request was accepted and the CLR:TRN output message follows.

`RL` = Retry later. The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
BKUP:ODD
EXC:SODD-RED
EXC:SODD-RED-OP
EXC:SODD-STP
```

Output Message(s):

```
CLR:TRN
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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CLR:TROVRD

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the trunk reservation (TR) inhibit override that was set as the result of a SET:TROVRD input message be cleared and all TR per-trunk-group inhibits be restored to their original state.

2. FORMAT

```
CLR:TROVRD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR:TROVRD output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
SET:TROVRD
OP:TR
```

Output Message(s):

```
CLR:TROVRD
```

Other Manual(s):
235-190-101 *Business and Residence Modular Features*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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CLR:TRUNK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that monitoring be stopped of a trunk group marked with stop-go signaling. This monitoring is initiated by the MON:TRUNK input message.

NOTE: An OP:TRUNK input message is recommended to verify if any trunks in the specified trunk group are being held off-hook and out-of-service. These trunks will be released from the held state and returned to service if the CLR:TRUNK input message is used.

2. FORMAT

```
CLR:TRUNK:TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group identifier.

4. SYSTEM RESPONSE

`PF` = Printout follows. Request accepted. Followed by the CLR:TRUNK output message.

5. REFERENCES

Input Message(s):

```
MON:TRUNK
OP:TRUNK
```

Output Message(s):

```
CLR:TRUNK
```

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CLR:UMEM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Causes the definition of an administrative module (AM) generic access package (GRASP) transfer trace to be removed. The trace goes into the UNDEF state with successful completion of the message.

2. FORMAT

```
CLR:UMEM[:UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditional execution.

4. SYSTEM RESPONSE

`?A` = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. May also include:
- `INVALID KEYWORD` = Message not allowed in a WHEN action list.

`NG` = No good. May also include:
- `TRACE NOT DEFINED` = The trace is not defined.
- `UCERR` = The circuit is unavailable.

`PF` = Printout follows. Followed by a CLR:UMEM output message.

`RL` = Retry later or wait for previous OP:UMEM to complete. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
INIT:UMEM
OP:UMEM
OP:UTIL
```

Output Message(s):

```
CLR:UMEM
OP:UTIL
```

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CLR:UPART

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

To allow traffic and clear the alarm for the User Part specified by the input OPC(originating point code) /DPC(destination point code) pair.

2. FORMAT

```
CLR:UPART,OPC=a,DPC=b[,SIGTYPE=c];
```

3. EXPLANATION OF MESSAGE

`a` = Originating point code (OPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

`b` = Destination point code (DPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

`c` = Signaling type. Valid value(s):
`- BICC`

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CLR UPART output message.

5. REFERENCES

Output Message(s):

`CLR:UPART`

Input Appendix(es):

`APP:POINT-CODE`

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CLR:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the communication module processor (CMP) be removed.

This message may be used together with any of the other CMP generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
CLR:UT:CMP=a,{MATE|PRIM},{UTIL|UTILFLAG=b}{!|;}
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby CMP.

`PRIM` = Execute this input message on the active CMP.

`UTIL` = Execute this input message on all of the WHEN clauses in the specified CMP.

`a` = CMP number.

`b` = The identification number of a specific WHEN clause, which is to be removed from the CMP.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
```

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```
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
CLR:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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CLR:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet interface (PI) unit be removed.

NOTE: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
CLR:UT:MCTSI=a-b,PI,{UTIL|UTILFLAG=c}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified PI.

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

`c` = The identification number of a specific WHEN clause, which is to be removed from the PI.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
```

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```
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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CLR:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.

NOTE: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
CLR:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=b}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified PSUPH.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number (always 0).

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The identification number of a specific WHEN clause, which is to be removed from the PSUPH.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
CLR:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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CLR:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.

This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others. This message may be used together with any of the other PSUPH generic utility input messages. Refer to the REFERENCES section of this message description. If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
CLR:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=e};
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified PSUPH.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The identification number of a specific WHEN clause, which is to be removed from the PSUPH.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

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Input Message(s):

```
ALW:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
CLR:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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CLR:UT-SM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one specific WHEN clause or all WHEN clauses be removed from both the application program and the memory of the switching module (SM).

This message may be used together with any of the other SM generic utility input messages Refer to the References section of this message. If this message is used together with other generic utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
CLR:UT:SM=a[&&b],{UTIL|UTILFLAG=c}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified SM(s).

`a` = SM number or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = The identification number of a specific WHEN clause, which is to be removed from the specified SM(s).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
```

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```
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
CLR:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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CLR:UTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Removes all currently defined administrative module (AM) generic access package (GRASP) breakpoints; clears definitions.

2. FORMAT

```
CLR:UTIL[,RESET];
```

3. EXPLANATION OF MESSAGE

`RESET` = The RESET option causes the breakpoint number to be re-initialized; the next breakpoint defined will be given the number 1.

4. SYSTEM RESPONSE

`NG` = No good. No GRASP breakpoints are currently defined.

`PF` = Printout follows. Followed by the CLR:UTIL output message.

`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
CLR:UTILFLAG
OP:UMEM
OP:UTIL
WHEN:PID
WHEN:UID
```

Output Message(s):

```
CLR:UTIL
OP:UTIL
```

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CLR:UTILFLAG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Removes the specified administrative module (AM) generic access package (GRASP) breakpoint and clears the definition.

2. FORMAT

```
CLR:UTILFLAG=a[,RESET];
```

3. EXPLANATION OF MESSAGE

`RESET` = If '`a`' is the last remaining defined breakpoint, then the RESET option causes breakpoint numbering to be reinitialized; the next defined breakpoint will be given the number 1.

If '`a`' is not the last defined breakpoint, then the RESET keyword is ignored.

`a` = Numeric identifier (one or more decimal digits) for the breakpoint to be cleared.

4. SYSTEM RESPONSE

`NG` = No good. Identifier does not correspond to a currently defined breakpoint.

`PF` = Printout follows. Followed by the CLR:UTILFLAG output message.

`RL` = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
CLR:UTIL
OP:UTIL
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Message(s):

```
CLR:UTILFLAG
OP:UTIL
WHEN:PID
WHEN:UID
```

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CLR:WSDGTL

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the trunk and line work station (TLWS) test position (TP) digital testing defaults be reset to the system defaults. The stored defaults are then used when a TST:WSDGTL test is requested and the values are not explicitly set.

There are four system defaults for digital testing. Valid value(s):

`BLKSZ` = 56000.
`CHAN` = ALL channels.
`TERM` = Line termination (LT).
`TESTEQ` = D-channel.

2. FORMAT

```
CLR:WSDGTL,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. Digital testing defaults were reset.

5. REFERENCES

Input Message(s):

```
RLS:WSTST
SET:WSDGTL
STP:WSTST
TST:WSDGTL
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*

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235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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CLR:WSFREQ

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the frequency and level be cleared at a particular trunk and line work station (TLWS) test position (TP). Frequency and level returns to the default values of 1004 Hz at 0 db.

2. FORMAT

```
CLR:WSFREQ,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. Default frequency and level reset to 1004 Hz at 0 dBm.

5. REFERENCES

Input Message(s):

`SET:WSFREQ`
`SET:WSPOS`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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CLR:WSOPD

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the digits that are used for automatic outpulsing on the trunk associated with the indicated trunk and line work station (TLWS) test position (TP) be cleared.

2. FORMAT

```
CLR:WSOPD,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. The outpulse digits have been cleared.

5. REFERENCES

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(TRUNK & LINE MAINT)

RC/V View(s):

14.5 (VERIFY 101 TEST LINE)

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17. CMPR

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CMPR:DISK-CORE

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Compares the text portions of the disk and core images of a non-killable process. Equipment configuration database (ECD) and public library (PLIB) can also be compared.

2. FORMAT

```
CMPR:DISK,CORE,FN="a"; [, OPTNM= "b",MPT="c",MHDNUM="d"];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file. The pathname is a list of the names of each directory leading to the file, and ends with the name of the specific file. Each name begins with a slash, and the entire pathname is enclosed in quotation marks. For example, "/usr/a1/ssw/test" means that /usr/a1/ssw is the list of directory names and /test is the file name.

`b` = Special device file name on offline partition (that is, /dev/root).

`c` = Pathname of mount point.

`d` = MHD number.

4. SYSTEM RESPONSE

`PF` = Printout follows. The CMPR:DISK-CORE output message follows.

5. REFERENCES

Output Message(s):

```
CMPR:DISK-CORE
UPD:SYSERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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CMPR:MHD

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Compares the contents of two disks or two disk partitions. A disk partition may reside on the disk of its duplex mate, or on an arbitrary disk. Also, both disk partitions may reside on the same disk.

Only one CMPR:MHD or COPY:DIFF-SRC-MHD input message is allowed to run at one time. If more than one is attempted, the disk file controller (DFC) will deny the request and output an error code to that effect.

WARNING: Incorrect use of this input message can degrade system performance. This input message should not be used without expert technical assistance. This message should not be executed during AM or CM REX. Ignoring this warning could lead to call processing problems.

2. FORMAT

```
CMPR:MHD=a[,PTN={b|c&&d}]:[MATE|MHD=e][,PTN={b|c&&d}]
[:DATA[,BLOCKS=f][,RO]];
```

3. EXPLANATION OF MESSAGE

`RO` = All blocks on specified moving head disks (MHDs) or partitions will be read into memory, but no comparison will be performed. If MHD '`e`' or `MATE` is not specified, the reads will only be performed on MHD '`a`'.

`a` = First member number.

`b` = Partition numbers, or list of partitions (r1, r2, r3, ..., rn) where the list may include 64 entries.

Default will be all but the FREE, UNASGN, DIAG, SWAP, and PDUMP partitions.

`c-d` = A range of partition numbers where a list of up to 32 ranges (p0-p1, p2-p3, p4-p5, ..., pm-pn) may be specified. A range has the format '`c-d`' where '`d`' must be greater than '`c`'.

`e` = Second member number. If MHD '`e`' or `MATE` is not specified, `MATE` is the default.

`f` = An integer value indicating the size of the input/output (I/O) buffers as a multiple of disk blocks. If '`BLOCKS`' is not specified, the default is 256. However, if '`BLOCKS`' is not specified, and the '`RO`' option is used, then the default is 128.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the CMPR:MHD output message.

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5. REFERENCES

Input Message(s):

```
COPY:DIFF-SRC-MHD
DUMP:MHD-BLOCK
STOP:CMPR-MHD
```

Output Message(s):

```
CMPR:MHD
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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18. CNVT

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CNVT:AMA-CONFIG

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic message accounting (AMA) configuration files be converted from the previous software release to the new software release during retrofits, disk growths, or updates, to accommodate the new disk layouts.

NOTE: This message has no effect unless a retrofit, disk growth, or update is in progress.

2. FORMAT

```
CNVT:AMA:CONFIG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted, and the CNVT:AMA-CONFIG output message follows.

5. REFERENCES

Output Message(s):

```
CNVT:AMA-CONFIG
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-105-24x *Software Release Retrofit*

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CNVT:CORCLOG

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that customer-originated recent change (CORC) logfiles be evolved (converted) and reapplied. This message the binary plus CORC logfiles for reapplication on the target software release.

WARNING: This message is only applicable during retrofit and should only be used when following procedures detailed in the Software Release Retrofit document.

2. FORMAT

```
CNVT:CORCLOG[,EVOL|,LOAD];
```

3. EXPLANATION OF MESSAGE

NOTE: If none of the options is specified, EVOL will be performed and CORCs will be inhibited.

`EVOL` = Evolves CORC logfiles from binary format of the current software release to binary plus format of the target software release.

`LOAD` = Reapplies binary plus CORC logfiles to target software release.

4. SYSTEM RESPONSE

`NG` = No good. The input request is not valid.

`PF` = Printout follows. Request accepted and the CNVT:CORCLOG output message follows.

5. REFERENCES

Input Message(s):

```
BKUP:ODD
CNVT:RCLOG
INH:CORC
```

Output Message(s):

```
CNVT:CORCLOG
```

Other Manual(s):

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Where (x) is the release-specific version of the specified manual.
235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*

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CNVT:RCLOG

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that recent change (RC) logfiles be Evolved (converted) to a format compatible with the target software release.

WARNING: This message is only applicable during retrofit and should only be used when following procedures detailed in the Software Release Retrofit document.

2. FORMAT

```
CNVT:RCLOG[,EVOL|,LOAD];
```

3. EXPLANATION OF MESSAGE

`EVOL` = Evolves RC ASCII logfiles from the format of the current software release to the format of the target software release.

`LOAD` = Converts RC ASCII logfiles to binary format.

4. SYSTEM RESPONSE

`NG` = No good. The input request is not valid.

`PF` = Printout follows. Request accepted and the CNVT:CORCLOG output message follows.

5. REFERENCES

Input Message(s):

```
BKUP:ODD
CNVT:CORCLOG
INH:CORC
```

Output Message(s):

```
CNVT:CORCLOG
CNVT:RCLOG
```

Other Manual(s):

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Where (x) is the release-specific version of the specified manual.
235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*

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CNVT:RT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that equipment numbers relating to remote terminals (RT) that interface to an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S) be converted. Given any of the three following identifiers, this message will provide the other two:

A SID = Site identification number

B For the IDCU:
BIDCURT = Local number for an RT terminating on an IDCU.

For the DCLU:
DCLURT = Local number for an RT terminating on an DCLU.

For the DNU-S:
DNUSRT = Local number for an RT terminating on a DNU-S.R

C For the IDCU:
IFAC = Digital signal level one (DS1) facility (IFAC) number

For the DCLU:
SDFI = *SLC*® 96 digital facility interface (SDFI) number

For the DNU-S:
DS1SFAC = DNU-S digital signal level 1 facility (DS1SFAC) number R

2. FORMAT

```
CNVT:RT,a;
```

3. EXPLANATION OF MESSAGE

a = Valid value(s):

IFAC=c-e-h
DCLURT=c-d-b
IDCURT=c-e-b
DNUSRT=c-f-b
SDFI=c-d-g
DS1SFAC=c-f-i
SID=j

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b = RT local number for IDCU or for DCLU. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = DNUS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = DS1SFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The CNVT:RT-SID-LRT output message follows.

NG = No good. Unit does not exist. The specified RT equipment number could not be found in the database.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:RT-FAC

Output Message(s):

CNVT:RT-SID-LRT

Input Appendix(es):

APP:RANGES

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Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

1870,x (IDCU FACILITY)
1880,x,yy (IDCU REMOTE TERMINAL)
1511,x,yy (DNUS STS MAINTENANCE)
1512,x,yy (DNUS STS DS1 APPLICATION)
1660,xxxx (TR303 REMOTE TERMINAL)

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CNVT:STANDALONE

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests an update of a switching module's (SM) office-dependent data (ODD) to support stand-alone operation. This message populates the directory number (DN) translation data for all lines physically terminating on the given SM, such that the SM is capable of processing intramodule calls even when it becomes isolated from the rest of the switch.

NOTE: This input message is to be used only in conjunction with the SM stand-alone installation procedure. The conversion routine can take several minutes to complete.

2. FORMAT

```
CNVT:STANDALONE,SM=a[,UNDO];
```

3. EXPLANATION OF MESSAGE

`UNDO` = Restore the ODD to the state before conversion in the event that the first attempt to convert the SM aborted.

`a` = SM number of the module to be converted to stand-alone.

4. SYSTEM RESPONSE

`NG` = No good. The input request is not valid.

`PF` = Printout follows. One or more CNVT:STANDALONE output messages follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
CNVT:STANDALONE
```

Other Manual(s):
235-105-231 *Hardware Change Procedures - Growth*

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19. CONN

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CONN:WSIC

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests seizure of an incoming 101TL (test-line) call at a trunk and line work station (TLWS) test position (TP). A test position must be assigned before accepting the call (refer to the SET:WSPOS input message).

2. FORMAT

```
CONN:WSIC,TP=a;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`IP` = In progress. Request in progress.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`RL` = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

`SET:WSPOS`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

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160 (TRUNK & LINE MAINT)

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CONN:WSJACK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests connection of the specified line or trunk at the trunk and line work station (TLWS) test position (TP) to a test access unit (TAU) jack.

NOTE: If the TLWS talk & monitor (T&M) phone is not busy and the request is for an AC jack connection, the T&M phone will automatically be brought into the connection in the TALK state.

2. FORMAT

```
CONN:WSJACK,TP=a[,JACK=b];
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

`b` = Jack connected. Valid value(s):

`AC1`	= AC jack position 1 (default).
`AC2`	= AC jack position 2.
`DC1`	= DC jack position 1.
`DC2`	= DC jack position 2.

4. SYSTEM RESPONSE

`IP` = In progress. Request in progress.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

```
CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSPOS
TST:WSMNTR
```

Output Appendix(es):

```
APP:TLWS
```

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Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RC/V View(s):

14.3 (TRUNK AND LINE WORK STATION)

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CONN:WSLINE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests seizure of (connection to) a line for interactive trunk and line work station (TLWS) testing. A test position (TP) must first be assigned before seizing a line (refer to the SET:WSPOS input message).

Lines are specified using one of the eleven formats shown below. Format 1 causes the port most recently requested for seizure on the test position to be reseized. A line is otherwise identified by either a directory number (DN, in Format 2), the integrated digital carrier unit (IDCU) line equipment number (ILEN, in Format 3), a line equipment number (LEN, in Format 4), a multi-line hunt group member number (MLHG, in Format 5), a subscriber loop carrier line equipment number (SLEN, in Format 6), a line card equipment number (LCEN, in Format 7), a line circuit equipment number on an integrated services line unit, version 2 (LCKEN, in Format 8), an application processor group member number (AP, in Format 9), an access interface unit equipment number (AIUEN) on an access interface unit (in Format 10), or an DNU-S (Digital Networking Unit-Synchronous Optical Network) number (INEN, in Format 11).

2. FORMAT

```
[1]    CONN:WSLINE,TP=a;

[2]    CONN:WSLINE,TP=a,DN=b[-c][,PKTDN][,CPE|USPID];

[3]    CONN:WSLINE,TP=a,ILEN=d-t-u-v[,CPE|USPID];

[4]    CONN:WSLINE,TP=a,LEN=d-e-f-g-h-i;

[5]    CONN:WSLINE,TP=a,MLHG=j-k[,CPE|USPID];

[6]    CONN:WSLINE,TP=a,SLEN=d-l-m-n;

[7]    CONN:WSLINE,TP=a,LCEN=d-o-p-q[,CPE|USPID];

[8]    CONN:WSLINE,TP=a,LCKEN=d-w-x-y-z[,CPE|USPID];

[9]    CONN:WSLINE,TP=a,AP=r-s;

[10]   CONN:WSLINE,TP=a,AIUEN=d-a1-b1-c1;

[11]   CONN:WSLINE,TP=a,INEN=d-d1-m-n;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`CPE` = Obtain the customer premises equipment (CPE) information for this line and display on the TLWS screen. Valid only for digital subscriber lines (DSLs). Note: this request is not allowed through MML input.

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`USPID` = Obtain the user service profile identifier (USPID) information for this line and display on the TLWS screen. Valid only for DSLs. Note: this request is not allowed through MML input.

`a` = TLWS TP number.

`b` = Directory number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be seized. For LTSB a member number of 1 will seize the lead line and a member number of 2 will seize the associate line. If no member number is specified, for 1-DN LTSB, the lead line will be seized. If no member number is specified, for 2-DN LTSB, the line associated with the DN entered will be seized.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Switch board number (LU1, LU2, or LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = MLHG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`q` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Data link (group) number of the AP. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Relative link (member) number of the AP. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Integrated service line unit 2 (ISLU2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = AIU line pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = AIU line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Input Messages manual.

`d`[1] = DNU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

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```
DISC:WSLINE
DISC:WSPORT
SET:WSPOS
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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CONN:WSPHONE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests to connect the trunk and line work station (TLWS) talk-and-monitor (T&M) phone with the current line or trunk associated with the test position (TP).

The T&M phone will be connected in the MONITOR mode of operation (refer to the SET:WSPHONE input message for changing the T&M mode) when it is initially connected.

2. FORMAT

```
CONN:WSPHONE,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`OK` = The phone has been added.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

```
DISC:WSPHONE
SET:WSPHONE
SET:WSPOS
```

Output Message(s):

```
CONN:WSPHONE
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RC/V View(s):

14.3 (TRUNK AND LINE WORK STATION)

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CONN:WSPORT-A

Software Release: 5E15 - 5E16(1)
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the port (line or trunk) that is associated with the specified trunk and line work station (TLWS) test position (TP) be re-seized. The association was accomplished earlier using a CONN:WSLINE, CONN:WSTRK or CONN:WSIC input message.

2. FORMAT

```
CONN:WSPORT,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

`OK` = Good. Port seized.

5. REFERENCES

Input Message(s):

`CONN:WSIC`
`CONN:WSLINE`
`CONN:WSTRK`
`SET:WSPOS`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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CONN:WSPORT-B

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the port [line, trunk or signaling data link (SDL)] that is associated with the specified trunk and line work station (TLWS) test position (TP) be re-seized. The association was accomplished earlier using a CONN:WSLINE, CONN:WSTRK or CONN:WSIC input message.

2. FORMAT

```
CONN:WSPORT,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

`OK` = Good. Port seized.

5. REFERENCES

Input Message(s):

`CONN:WSIC`
`CONN:WSLINE`
`CONN:WSTRK`
`SET:WSPOS`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
160 TRUNK & LINE MAINT

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CONN:WSTRK-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS) testing. A test position (TP) must be assigned before seizing the trunk (refer to the SET:WSPOS input message).

Format 1 will cause the port most recently requested for seizure on the TP to be reseized.

In Format 2, a trunk is identified by a digital equipment number (DEN).

In Format 3, a trunk is identified by a trunk (analog) equipment number (TEN).

In Format 4, a trunk is identified by a trunk group (TG) (first member).

In Format 5, a trunk is identified by a specific member of a trunk group (TKGMN).

In Format 6, the trunk is identified by a next member (NEXTMEM) of the trunk group currently being tested.

In Format 9, a trunk is identified by a *SLC®* line equipment number (SLEN).

In Format 10, the trunk is identified by an integrated digital carrier unit (IDCU) line equipment number (ILEN).

In Format 11, the trunk is identified by a networking equipment number (NEN).

In Format 12, a trunk is identified by a packet switching unit (PSU) equipment number (PSUEN).

In Format 13, a trunk is identified by a Digital Networking Unit-Synchronous Optical Network (DNU-S) number (INEN).

In Format 14, a trunk is identified by a Peripheral Control and Timing Facility Interface (PCTFI) equipment number (PLTEN).

The digital service unit 2 recorded announcement function (DSU2-RAF) announcement port is seized by using Format 7.

The service announcement system (SAS) digital service circuit port is seized by using Format 8.

Note: Announcement test function (ATF) will either be a RAF or SAS.

2. FORMAT

```
[1]    CONN:WSTRK,TP=a;

[2]    CONN:WSTRK,TP=a,DEN=b-c-d-e;

[3]    CONN:WSTRK,TP=a,TEN=b-f-g-h-i;

[4]    CONN:WSTRK,TP=a,TG=j;
```

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```
[5]    CONN:WSTRK,TP=a,TKGMN=j-k;

[6]    CONN:WSTRK,TP=a,NEXTMEM;

[7]    CONN:WSTRK,TP=a,RAF=b-l-m;

[8]    CONN:WSTRK,TP=a,SAS=b-l-m;

[9]    CONN:WSTRK,TP=a,SLEN=b-n-o-p;

[10]   CONN:WSTRK,TP=a,ILEN=b-q-r-s;

[11]   CONN:WSTRK,TP=a,NEN=b-t-u-w-v-c1-d1-x;

[12]   CONN:WSTRK,TP=a,PSUEN=b-y-z-a1-b1;

[13]   CONN:WSTRK,TP=a,INEN=b-t-o-p;

[14]   CONN:WSTRK,TP=a,PLTEN=b-e1-f1-g1-h1;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`l` = ATF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Remote terminal (RT) number in the IDCU or the digital signaling 1 (DS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = RT line number or the digital signaling 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Peripheral Control and Timing (PCT) Line and Trunk Unit (PLTU) number.

`f`[1] = PCT Facility Interface (PCTFI) number.

`g`[1] = Tributary number.

`h`[1] = Channel number.

4. SYSTEM RESPONSE

`OK` = Port has been seized.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`RL` = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

```
DISC:WSTRK
DISC:WSPORT
SET:WSPOS
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):

235-100-125 *System Description*

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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CONN:WSTRK-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS) testing. A test position (TP) must be assigned before seizing the trunk (refer to the SET:WSPOS input message).

Note: Announcement test function (ATF) will either be a RAF or SAS.

2. FORMAT

```
CONN:WSTRK,TP=a[,b];
```

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

b = Unit. Valid value(s):

```
DEN=c-d-e-f
ILEN=c-r-s-t
INEN=c-u-p-q
NEN=c-u-v-x-w-d1-e1-y
NEXTMEM
RAF=c-m-n
SAS=c-m-n
SLEN=c-o-p-q
TEN=c-g-h-i-j
TG=k
TKGMN=k-l
PSUEN=e-z-a1-b1-c1
OIUEN=c-l1-m1-n1-o1-p1-q1-f
PLTEN=c-f1-g1-h1-i1
VTRK=c-j1-k1
```

c = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`g` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = ATF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Remote terminal (RT) number in the IDCU or the digital signaling 1 (DS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = RT line number or the digital signaling 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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y = DS0 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number.

g[1] = PCT facility interface (PCTFI) number.

h[1] = Tributary number.

i[1] = Channel number.

j[1] = Virtual trunk facility number.

k[1] = Virtual trunk channel number.

l[1] = Optical interface unit number.

m[1] = Protection group number.

n[1] = OC-3 STE number.

o[1] = STS level 1 (STS-1) number.

p[1] = Virtual tributary 1.5 group (VTGRP) number.

q[1] = Virtual tributary 1.5 member (VTMEM) number.

4. SYSTEM RESPONSE

OK = Port has been seized.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

RL = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output

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Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

```
DISC:WSTRK
DISC:WSPORT
SET:WSPOS
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
160 TRUNK & LINE MAINT

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CONN:WSTRK-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests seizure of (connection to) a trunk or signaling data link (SDL) for interactive trunk and line work station (TLWS) testing. A test position (TP) must be assigned before seizing the trunk (refer to the SET:WSPOS input message).

NOTE: Announcement test function (ATF) will either be a RAF or SAS.

2. FORMAT

```
CONN:WSTRK,TP=a[,b];
```

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

b = Unit. Valid value(s):

```
DEN=c-d-e-f
ILEN=c-r-s-t
INEN=c-u-p-q
NEN=c-u-v-x-w-d1-e1-y
NEXTMEM
OIUEN=c-l1-m1-n1-o1-p1-q1-f
PLTEN=c-f1-g1-h1-i1
PSUEN=e-z-a1-b1-c1
RAF=c-m-n
SAS=c-m-n
SLEN=c-o-p-q
TEN=c-g-h-i-j
TG=k
TKGMN=k-l
VTRK=c-j1-k1
```

c = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`g` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = ATF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Remote terminal (RT) number in the IDCU or the digital signaling 1 (DS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = RT line number or the digital signaling 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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y = DS0 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number.

g[1] = PCT facility interface (PCTFI) number.

h[1] = Tributary number.

i[1] = Channel number.

j[1] = Virtual trunk facility number.

k[1] = Virtual trunk channel number.

l[1] = Optical interface unit number.

m[1] = Protection group number.

n[1] = OC-3 STE number.

o[1] = STS level 1 (STS-1) number.

p[1] = Virtual tributary 1.5 group (VTGRP) number.

q[1] = Virtual tributary 1.5 member (VTMEM) number.

4. SYSTEM RESPONSE

OK = Port has been seized.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

RL = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output

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Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

```
DISC:WSTRK
DISC:WSPORT
SET:WSPOS
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
160 TRUNK & LINE MAINT

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20. COPY

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COPY:ACTDISK

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies a file from an active disk to an offline (OFL) or out-of-service (OOS) disk. The file can be a regular file, a contiguous file (type "C" or "x"), or a block device (type "b", partition or file system). For a regular or contiguous file, the destination file will be created with type, owner, and permission flags similar to those of the source file.

2. FORMAT

```
COPY:ACTDISK,MHD=a,SRC="b",PTN="c"[,DEST="d"];
```

3. EXPLANATION OF MESSAGE

`a` = Specifies destination disk unit. This disk should not be active.

`b` = Full pathname of the file to be copied. This file should exist on an active disk.

`c` = Special device filename or number of the destination partition on the non-active disk. If a name is specified, then this partition should exist on the active disk.

`d` = A pathname where the file is to be written, on the non-active file system. If this name is not specified, the path name of the source file will be used. If the name starts with a "`/`", then the mount point will be excluded. This name should not be specified if the source is a partition or file system.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:ACTDISK output message.

5. REFERENCES

Output Message(s):

`COPY:ACTDISK`

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COPY:ADDR

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that data be copied from virtual addresses in main memory to other virtual addresses, registers, or administrative module (AM) generic access package (GRASP) utility variables as a response to a breakpoint.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

2. FORMAT

```
COPY:ADDR=a[,OFF=b][,L=c|,NL=d]{:ADDR=e|:UVAR=f|:REG=g} [:WORD];
```

3. EXPLANATION OF MESSAGE

`WORD` = All addresses, offsets, and lengths are interpreted in terms of words (including addresses derived in address chains). If this option is omitted, values given are in bytes.

`a` = The starting virtual address for the source data in decimal, octal, or hexadecimal notation.

`b` = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified.

`c` = The length of the copy in bytes unless the WORD option is specified. The maximum is 128 bytes or 32 words. The default is 1 word or byte.

`d` = The operation will use the locations beginning '`d`' lower than the calculated address and ending at the address. The locations are used in ascending order.

`e` = The virtual address of the destination for the data in decimal, octal, or hexadecimal notation.

`f` = A GRASP utility variable, in decimal, to be written as the destination copy. Utility variable values are reset to 0 at the end of a debugging session.

`g` = The name of the register to be written as the destination copy. Valid register names are:

AP	HSR	R4	SBR5	T2
ATBBGR HSRBGC	R5	SBR6	T3	ATBPSW
ISC	R6	SBR7	T4	ATBQ
ISS	R7	SCRATCH	T5	ATBSAR
PA	R8	SCRATCH0	T6	ATBSCR
PPR	R9	SDR	T7	ATBSDR
PSW	RNULL	SM	TIMERS	BGR
R0	RTC	SP	TOPIS	CAR
R1	SBR0	SSRC	UINT0	CDR
R10	SBR1	SSRS	UINT1	ERC
R11	SBR2	SYSBASE	UINT2	FP
R2	SBR3	T0	UINT3	HG

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R3	SBR4	T1	UINTER	

4. SYSTEM RESPONSE

`?I` = General syntax error. Valid value(s):
- `INCONSISTENT KEYWORDS (NL-OFF)` = Negative length not allowed without OFF.
- `INVALID KEYWORD` = ADDR is invalid in an immediate action.
- `RANGE ERROR (UVAR)` = Invalid utility variable number was specified.
- `RANGE ERROR (L or NL)` = Length specified is too long.
- `INPUT ERROR (OFF COUNT)` = Too many offsets listed.

`IP` = In progress. The message has been added to the WHEN action list.

`NG` = No good. Valid value(s):
- `BAD REG NAME` = A named register is not a valid destination.

`PF` = Printout follows. Followed by the COPY:ADDR output message.

`RL` = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
COPY:PID
COPY:UID
DUMP:ADDR
LOAD:ADDR
WHEN:PID
WHEN:UID
```

Output Message(s):

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
```

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COPY:BKDISK-A

Software Release: 5E15 only
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies selected on-line disk partitions to tape in the load disk from tape (LDFT) format. The partitions must be specified in a specification file. The default for the specification file name is "/etc/pdtspec". The full pathname must be given for each partition, and only one partition can appear on each line.

If the system is booted on the primary root file system, for those partitions having backup partitions, the backup partitions are written to tape. If the system is booted on the backup root file system, the primary disk partitions are written to tape. Partitions without backup partitions are written from the primary partitions in both cases. Collectively the partitions make up one logical volume.

Format 1 copies the partitions to magnetic tape in single volume format.

Format 2 acknowledges the mounting of a new tape by the user and is only used in conjunction with Format 1.

Format 3 copies partitions to a digital audio tape (DAT) in multi-volume format.

On a 3B21D with a DAT drive, Format 3 is used to format the DAT with multiple logical volumes, provided the tape already contains the TOP file at the beginning of the tape. (The TOP file is considered to be Session 1 Volume 0 and is written by the COPY:TAPE-TOP input message.) One or more of these logical volumes form a backup session. A DAT may be formatted with no more than nine backup sessions in sequential order. A backup session may contain any combination of logical volumes meeting the listed criteria:

— the logical volumes within a session must be ordered such that any given volume identified by its logical volume number has a greater number than the previous volume in the session.

Refer to variable '`f`' for the mapping of logical volume numbers to the volume names they represent.

By default, Format 3 will try to append logical volumes to the current end of data mark. There are optional parameters for session and volume position to request that a logical volume be appended to the end of a specific logical volume on the DAT for the purpose of overwriting the DAT from that point forward. This option is only valid for overwriting logical volumes within the most recent backup session or for appending a logical volume for the next session to the last logical volume of the specified positioning session.

NOTE: When specifying a DAT as the tape device, COPY:BKDISK will always use a DAT device which writes low density (uncompressed) data to satisfy a requirement of LDFT processing. In the event that the specified DAT device writes high density (compressed) data, COPY:BKDISK will override the selection and use the equivalent low density DAT device. For example, if the high density rewind DAT device (/dev/mt00) is specified, COPY:BKDISK will override the selection and use the low density rewind DAT device (/dev/mt08).

2. FORMAT

```
[1]    COPY:BKDISK:START:DATA,SRC="a",TD="b",TPSIZE=c. . .
       . . .[,FN="d"][,MRG][,EXT][,SKP][,NODMTMSG][,COM];
```

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```
[2]    COPY:BKDISK:ACK:DATA,TPSIZE=c;
       ____________________________________________________________

[3]    COPY:BKDISK:MULTI:DATA,SRC="a",TD="b",SESS=e,VOL=f. . .
       . . .[,PSESS=g,PVOL=h][,FN="d"][,MRG][,EXT][,SKP][,NODMTMSG]. . .
       . . .[,COM];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`COM` = This option must be used when creating a *UNIX*® RTR disk image that contains a common volume table of contents (VTOC) [a VTOC containing both the 3B20D very large main memory (VLMM) and 3B21D lboot partitions] or when creating other generic text tapes that is shared among 3B20D VLMM and 3B21D processors.

`EXT` = LDFT extended format tapes where the data blocks can be up to 6K bytes. This option cannot be used on a Kennedy tape drive controlled by an UN134 PC.

`MRG` = Writes generic and database partitions as one generic sequence. With this option, the specification file should contain both database and generic partitions. As the default, if the specification file contains generic and database partitions, then two sequences will be created.

NOTE: The default action is not supported for a multi-volume LDFT tape. The user must specify this option when the specification file contains both database and generic partitions and Format 3 is being used.

`NODMTMSG` = Upon completion, the `DISMOUNT TAPE AND LABEL` message will not be printed.

`SKP` = Skip block usage bitmap and unused data blocks when writing file systems to tape. Use of this option is generally recommended, as it will conserve tape, if possible, and save time.

NOTE: Tape reading and writing time may approximately double when this option is used with streaming tape drives (tape drives without mechanical tensioners or vacuum columns) in a worst-case data scattering scenario.

`a` = Pathname that specifies the boot disk.

`b` = Special device file name of the tape drive to be used. Refer to the **Note** in the **PURPOSE** section for additional information. Also, refer to the User Guidelines for definitions and examples of tape device names.

`c` = Specifies the size of the tape, mounted in feet for 9-track devices, or meters for digital audio tapes (DATs). The acceptable range for a 9-track tape size is 600 to 2400 and the acceptable range for a DAT tape size is 30 to 90. The format requires entry of the tape size separated from the keyword by a space.

`d` = Specification file name that contains a set of partitions to be written to tape. The full pathname of the file is required.

`e` = Backup session number which is used to group one or more logical volumes together. The first backup session on tape must be numbered backup session 1 and increased sequentially thereafter with a maximum value of 9.

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f = Logical volume number which identifies the group of partitions being written to tape. Valid value(s):
1 = AMTEXT.
2 = AMODD.
3 = SMTEXT.
4 = SMODD1.
5 = SMODD2.
6 = SMODD3.
7 = SMODD4.
8 = SMODD5.
9 = SMODD6.

g = Positioning backup session number which identifies a backup session on tape. The range of positioning backup session numbers is 1 to 9. This number is used along with the positioning logical volume number to locate a specific logical volume on tape to which to append the new logical volume. The absence of the positioning fields will result in the logical volume being appended to the current end of data mark on tape.

h = Positioning logical volume number. The range of positioning logical volume numbers is 0 to 9. Note that 0 is included in this range to allow for appending to the TOP file. Refer to the explanation of field 'g' for more information.

4. SYSTEM RESPONSE

NG = No good. A fatal error was encountered because the actual disk writer or the user acknowledgement program (Format 2) could not be initiated. Try to initiate the request again. If the process still fails, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

PF = Printout follows. Followed by the COPY:BKDISK output message.

Note: Refer to the APP:AUD appendix in the appendixes section of the Input Messages manual for more system responses.

5. REFERENCES

Input Message(s):

```
COPY:TAPE-DATA
COPY:TAPE-TOP
DUMP:BKTAPE
STOP:BKDISK
```

Output Message(s):

```
COPY:BKDISK
```

Input Appendix(es):

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```
APP:AUD
```

Other Manual(s):
Where 'x' is the release-specific version of the specified document.
235-600-31x *ECD/SG Data Base*
235-105-110 *System Maintenance Requirements and Tools*

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COPY:BKDISK-B

Software Release: 5E16(1) and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies selected on-line disk partitions to tape in the load disk from tape (LDFT) format. The partitions must be specified in a specification file. The default for the specification file name is "/etc/pdtspec". The full pathname must be given for each partition, and only one partition can appear on each line.

If the system is booted on the primary root file system, for those partitions having backup partitions, the backup partitions are written to tape. If the system is booted on the backup root file system, the primary disk partitions are written to tape. Partitions without backup partitions are written from the primary partitions in both cases. Collectively the partitions make up one logical volume.

Format 1 copies the partitions to magnetic tape in single volume format.

Format 2 acknowledges the mounting of a new tape by the user and is only used in conjunction with Format 1.

Format 3 copies partitions to a digital audio tape (DAT) in multi-volume format.

On a 3B21D with a DAT drive, Format 3 is used to format the DAT with multiple logical volumes, provided the tape already contains the TOP file at the beginning of the tape. (The TOP file is considered to be Session 1 Volume 0 and is written by the COPY:TAPE-TOP input message.) One or more of these logical volumes form a backup session. A DAT may be formatted with no more than nine backup sessions in sequential order. A backup session may contain any combination of logical volumes meeting the listed criteria:

— the logical volumes within a session must be ordered such that any given volume identified by its logical volume number has a greater number than the previous volume in the session.

Refer to variable '`f`' for the mapping of logical volume numbers to the volume names they represent.

By default, Format 3 will try to append logical volumes to the current end of data mark. There are optional parameters for session and volume position to request that a logical volume be appended to the end of a specific logical volume on the DAT for the purpose of overwriting the DAT from that point forward. This option is only valid for overwriting logical volumes within the most recent backup session or for appending a logical volume for the next session to the last logical volume of the specified positioning session.

NOTE: When specifying a DAT as the tape device, COPY:BKDISK will always use a DAT device which writes low density (uncompressed) data to satisfy a requirement of LDFT processing. In the event that the specified DAT device writes high density (compressed) data, COPY:BKDISK will override the selection and use the equivalent low density DAT device. For example, if the high density rewind DAT device (/dev/mt00) is specified, COPY:BKDISK will override the selection and use the low density rewind DAT device (/dev/mt08).

2. FORMAT

```
[1]    COPY:BKDISK:START:DATA,SRC="a",TD="b",TPSIZE=c. . .
       . . .[,FN="d"][,MRG][,EXT][,SKP][,NODMTMSG][,COM];
```

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```
[2]    COPY:BKDISK:ACK:DATA,TPSIZE=c;
       ____________________________________________________________

[3]    COPY:BKDISK:MULTI:DATA,SRC="a",TD="b",SESS=e,VOL=f. . .
       . . .[,PSESS=g,PVOL=h][,FN="d"][,MRG][,EXT][,SKP][,NODMTMSG]. . .
       . . .[,COM];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`COM` = This option must be used when creating a *UNIX*® RTR disk image that contains a common volume table of contents (VTOC) [a VTOC containing both the 3B20D very large main memory (VLMM) and 3B21D lboot partitions] or when creating other generic text tapes that is shared among 3B20D VLMM and 3B21D processors.

`EXT` = LDFT extended format tapes where the data blocks can be up to 6K bytes. This option cannot be used on a Kennedy tape drive controlled by an UN134 PC.

`MRG` = Writes generic and database partitions as one generic sequence. With this option, the specification file should contain both database and generic partitions. As the default, if the specification file contains generic and database partitions, then two sequences will be created.

NOTE: The default action is not supported for a multi-volume LDFT tape. The user must specify this option when the specification file contains both database and generic partitions and Format 3 is being used.

`NODMTMSG` = Upon completion, the `DISMOUNT TAPE AND LABEL` message will not be printed.

`SKP` = Skip block usage bitmap and unused data blocks when writing file systems to tape. Use of this option is generally recommended, as it will conserve tape, if possible, and save time.

NOTE: Tape reading and writing time may approximately double when this option is used with streaming tape drives (tape drives without mechanical tensioners or vacuum columns) in a worst-case data scattering scenario.

`a` = Pathname that specifies the boot disk.

`b` = Special device file name of the tape drive to be used. Refer to the **Note** in the **PURPOSE** section for additional information. Also, refer to the User Guidelines for definitions and examples of tape device names.

`c` = Specifies the size of the tape, mounted in feet for 9-track devices, or meters for digital audio tapes (DATs). The acceptable range for a 9-track tape size is 600 to 2400 and the acceptable range for a DAT tape size is 60 to 170. The format requires entry of the tape size separated from the keyword by a space.

`d` = Specification file name that contains a set of partitions to be written to tape. The full pathname of the file is required.

`e` = Backup session number which is used to group one or more logical volumes together. The first backup session on tape must be numbered backup session 1 and increased sequentially thereafter with a maximum value of 9.

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`f` = Logical volume number which identifies the group of partitions being written to tape. Valid value(s):

`1`	= AMTEXT.
`2`	= AMODD.
`3`	= SMTEXT.
`4`	= SMODD1.
`5`	= SMODD2.
`6`	= SMODD3.
`7`	= SMODD4.
`8`	= SMODD5.
`9`	= SMODD6.

`g` = Positioning backup session number which identifies a backup session on tape. The range of positioning backup session numbers is 1 to 9. This number is used along with the positioning logical volume number to locate a specific logical volume on tape to which to append the new logical volume. The absence of the positioning fields will result in the logical volume being appended to the current end of data mark on tape.

`h` = Positioning logical volume number. The range of positioning logical volume numbers is 0 to 9. Note that 0 is included in this range to allow for appending to the TOP file. Refer to the explanation of field '`g`' for more information.

4. SYSTEM RESPONSE

`NG` = No good. A fatal error was encountered because the actual disk writer or the user acknowledgement program (Format 2) could not be initiated. Try to initiate the request again. If the process still fails, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

`PF` = Printout follows. Followed by the COPY:BKDISK output message.

Note: Refer to the APP:AUD appendix in the appendixes section of the Input Messages manual for more system responses.

5. REFERENCES

Input Message(s):

```
COPY:TAPE-DATA
COPY:TAPE-TOP
DUMP:BKTAPE
STOP:BKDISK
```

Output Message(s):

```
COPY:BKDISK
```

Input Appendix(es):

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```
APP:AUD
```

Other Manual(s):
Where 'x' is the release-specific version of the specified document.
235-600-31x *ECD/SG Data Base*
235-105-110 *System Maintenance Requirements and Tools*

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COPY:BKTAPE

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies the contents of a multi-volume formatted digital audio tape (DAT) from a source DAT drive to a destination DAT drive. The default action is to make a complete copy of the source DAT. If the optional session number is specified, then the multi-volume formatted data is copied from the beginning of the specified session on the source DAT and appended to the end of the previous session on the destination DAT.

NOTE: COPY:BKTAPE will always use a destination DAT device which writes low density (uncompressed) data to satisfy a requirement of LDFT processing. In the event that the specified destination DAT device writes high density (compressed) data, COPY:BKTAPE will override the selection and use the equivalent low density DAT device. For example, if the high density rewind DAT device (/dev/mt10) is specified, COPY:BKTAPE will override the selection and use the low density rewind DAT device (/dev/mt18). It is un-necessary to override the source DAT device since data is always returned uncompressed, regardless of format, on read operations.

2. FORMAT

```
COPY:BKTAPE:SRC="a", DEST="b" [,SESS=c];
```

3. EXPLANATION OF MESSAGE

`a` = Device filename of the source DAT drive. Refer to the **Note** in the **PURPOSE** section for additional information. Also, refer to the User Guidelines for definitions and examples of tape device names.

`b` = Device filename of the destination DAT drive. Refer to the **Note** in the **PURPOSE** section for additional information. Also, refer to the User Guidelines for definitions and examples of tape device names.

`c` = Session number on the source DAT. This session is the starting point for the copy from the source DAT. Valid session numbers are 1 through 9.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:BKTAPE output message.

5. REFERENCES

Input Message(s):

```
COPY:BKDISK
DUMP:BKTAPE
```

Output Message(s):

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```
COPY:BKTAPE
```

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COPY:DIFF-SRC-MHD

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Compares disk partitions in order to detect differences. When a difference is found, data is copied from the source partition to the destination partition. The input arguments can specify disks or specific partitions. A disk partition may reside on the disk of its duplex mate, or on an arbitrary disk. Also, both partitions may reside on the same disk.

A difference generates a message which identifies the location of the difference. A copy will then be performed to correct the difference. The source argument is considered to contain the correct disk data. The mismatch messages provide an audit trail of corrected disk blocks. Only one COPY:DIFF-SRC-MHD or CMPR:MHD input message is allowed to run at one time. If more than one is attempted, the disk file controller (DFC) driver will deny the request and output an error code to that effect.

WARNING: Incorrect use of this input message can degrade system performance and result in disk data mutilation. This input message should not be used without expert technical assistance.

2. FORMAT

```
COPY:DIFF:SRC,MHD=a[,PTN={b|c&&d}]:DEST,{MATE|MHD=e}[,PTN={b|c&&d}]
[,BLOCKS=i];
```

3. EXPLANATION OF MESSAGE

`a` = Source member number.

`b` = Partition number within a range of (0 to 63), or list of partitions (r1, r2, r3, ..., rn) where the list may include 64 entries. Default will be all but the FREE, UNASGN, DIAG, SWAP, and PDUMP partitions.

`c` = Lower limit in a range of partition numbers where a list of up to 32 ranges (p0-p1, p2-p3, p4-p5, ..., pm-pn) may be specified.

`d` = Upper limit in a range of partition numbers.

`e` = Destination member number.

`i` = An integer value indicating the size of the input/output (I/O) buffers as a multiple of disk blocks. The legal values are 1-256. If BLOCKS is not specified, the default number of 128 will be used.

4. SYSTEM RESPONSE

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`PF` = Printout follows. Followed by the COPY:DIFF-SRC-MHD output message.

5. REFERENCES

Input Message(s):

```
CMPR:MHD
DUMP:MHD-BLOCK
DUMP:MHD-DEFECT
DUMP:MHD-VTOC
STOP:COPY-DIFF
```

Output Message(s):

```
COPY:DIFF-SRC-MHD
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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COPY:ECD-TAPE

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the equipment configuration database (ECD) and system generation (SG) database files be copied from the primary partition on disk to a magnetic tape. The database files are first converted to a readable format, and then written to tape.

This message is primarily used for preliminary and final office data administration (ODA) database preparation for ECD evolution as a part of retrofit procedure. Files copied to tape are ASCII (dumped) version of "root" ECD and SG in /database (/dev/db) file system.

2. FORMAT

```
COPY:ECD:TAPE[:TU=a][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Start a new process even when one is already running. The running process will be terminated before the new one is started.

`a` = Tape drive unit (TU). 0, 1, L0 or L1. When 0 or 1 is specified, data will be written in high density if the tape drive is of high density type. Otherwise, data will be written in low density. When L0 (low density unit 0) or L1 is specified, data will be written in low density regardless of the tape drive type (high density tape drive can be used in either density mode). High density write will use much less tape. When TU is not specified, unit 0 is assumed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:ECD-TAPE output message.

5. REFERENCES

Output Message(s):

```
COPY:ECD-TAPE
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*

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COPY:FSYS-CFILE

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a specific file be moved into a contiguous area.

2. FORMAT

```
COPY:FILESYS,CFILE,FN="a";
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file to be made contiguous.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:FSYS-CFILE output message.

5. REFERENCES

Output Message(s):

COPY:FSYS-CFILE

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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COPY:FSYS-FILE

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific file be copied to another file or directory.

WARNING: All existing data in the destination file will be destroyed.

2. FORMAT

```
COPY:FILESYS,FILE,SRC="a",DEST="b"[,{ERASE|NOERASE}];
```

3. EXPLANATION OF MESSAGE

ERASE = Sourcefile will be renamed (moved) to the destination indicated in variable 'b'. As a result, one file will exist.

NOERASE = Sourcefile will be copied to the destination indicated in variable 'b'. As a result, two files will exist. NOERASE is the default value.

NOTE: If ERASE is specified, the source file will be renamed (moved) to the DEST indicated, that is, one file will exist. However, if NOERASE is used the SRC file will be copied to the DEST indicated and two files will exist. Failure to indicate either will default to NOERASE.

a = Pathname of the file to be copied. The pathname is a list of the names of each directory leading to the file, and ends with the name of the specific file. Each name begins with a slash, and the entire pathname is enclosed in quotation marks. For example, "/usr/a1/ssw/test" means that /usr/a1/ssw represents the list of directory names and /test represents the file name.

b = Pathname of the destination directory or file. 'b' cannot be identical to 'a'.

NOTE: If only a filename is given for DEST, the default directory is /cft/shl. Example:

```
COPY:FILESYS{:[DATA,]|,}FILE,SRC="/tmp/tst",DEST="tmtst";
```

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:FSYS-FILE output message.

5. REFERENCES

Input Message(s):

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```
ALW:FSYS-ACCESS
CLR:FSYS-FILE
COPY:PTN-ALL
```

Output Message(s):

```
ALW:FSYS-ACCESS
CLR:FSYS-FILE
COPY:FSYS-FILE
COPY:PTN-ALL
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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COPY:LOG-TAPE

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that the office dependent data (ODD) recent change (RC) log file be copied from disk to magnetic tape.

Format 1 invokes a process that copies the named RC log file to tape. Format 2 restarts the process unconditionally. This format can be used to override the retry later - in progress (RL - IP) system response.

2. FORMAT

```
[1]    COPY:LOG:TAPE,FN="a";

[2]    COPY:LOG:TAPE,FN="a":UCL;
```

3. EXPLANATION OF MESSAGE

`UCL` = Indicates that the request is to be performed unconditionally, possibly interrupting a COPY:LOG-TAPE input message that is in progress.

`a` = Indicates the file name. The full pathnam, surrounded by double quotation marks, of the log file to be written to tape.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more COPY:LOG-TAPE output messages.

`RL` = Retry later. May also include:
- `IP` = In progress. Process already running; needs UCL to proceed (refer to Format 2).

5. REFERENCES

Output Message(s):

`COPY:LOG-TAPE`

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-105-24x *Software Release Retrofit*

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COPY:ODD-TAPE

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the system office dependent data (ODD) files be copied from disk to magnetic tape.

This message is primarily used for preliminary and final office data administration (ODA) database preparation for ODD evolution as a part of retrofit procedure. Files and partitions copied to tape are: disk ODD (/dev/no5dodd1 or /dev/no5dodd2); all the "*odd*.out" (* = any ASCII string) files in /no5odd/cpdata (/dev/no5aodd1 or 2), /no5odd/cidata (/dev/no5codd1 or 2) and /no5odd/imdataN (/dev/no5soddN--N represents a number in newer software release). The sides 1 and 2 are alternated for each ODD backup operation and whichever happens to be the official backup side will be copied to tape.

Format 1 starts a process that copies the system ODD files to tape. TU option may be used to specify the tape drive unit and density. If TU option is not specified, unit 0 (side 0) is assumed and write density is determined by the type of the equipment.

Format 2 restarts the process (after mounting a new tape) to write the second (and subsequent) tape. The tape must be mounted on the same unit as the first tape.

Format 3 restarts the process at a mid-numbered tape.

Format 4 kills the currently running process and starts a new process on the tape specified.

NOTE: The terms low density and high density take on different meanings depending on the type of tape drive unit. For 9-track tape drive units, density refers to the number of data bits recorded per inch of tape. For digital audio tape (DAT) drive units, density refers to the recording mode (uncompressed or compressed). When specifying a tape drive unit associated with a DAT, the process which writes the tape data will always write the data uncompressed (low density) to satisfy a requirement of load disk from tape (LDFT) processing.

2. FORMAT

```
[1]    COPY:ODD,TAPE[,ALL][,PRELIM][,TU=b][,UCL];
       ___________________________________________________________

[2]    COPY:ODD,TAPE,CONTINUE[,ALL];
       ___________________________________________________________

[3]    COPY:ODD,TAPE=a[,ALL][,TU=b],CONTINUE;
       ___________________________________________________________

[4]    COPY:ODD,TAPE=a[,ALL][,TU=b],CONTINUE,UCL;
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ALL` = Copy equipment configuration database (ECD) and system generation (SG) database on the same tape as the ODDs mentioned above. The ECD and SG copied here will be "undumped"

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(non-ASCII) format. If you have a high-density tape drive, using this keyword will reduce the number of tapes needed.

NOTE: Once the "ALL" option is used, you must continue using it in all subsequent COPY:ODD-TAPE input messages until you are finished.

`PRELIM` = Preliminary dump. This option is used when making the preliminary ODD/ECD dump for a software release retrofit. When the final dump tapes are made for the software release retrofit, this parameter should be omitted.

`CONTINUE` = Restart the process (after a new tape is mounted) to write the second (and subsequent) tape(s). The tape must be mounted on the same unit as the first tape. When the process is in waiting state, tape number '`a`' is not needed and will be ignored if present. The waiting process produces tapes in sequential order and knows what tape number to produce.

When there is no waiting process (no other COPY:ODD-TAPE process is running), and the CONTINUE keyword is used, tape number '`a`' is required to signal that you wish to start from a mid-numbered tape rather than starting from the first tape.

`UCL` = Start a new process even when one is already running. The running process will be terminated before the new one is started. Tape drive unit 0 will be used.

`a` = Tape number. The tape number should be specified only when you wish to start from a mid-numbered tape (such as, tape number 2) instead of sequentially starting from tape 1. Refer to the explanation for `CONTINUE`.

`b` = Tape drive unit (TU). When TU is not specified, unit 0 is assumed. Valid value(s):

- `0` = Data will be written in high density if the tape drive is of high density type. Otherwise, data will be written in low density.
- `1` = Data will be written in high density if the tape drive is of high density type. Otherwise, data will be written in low density.
- `L0` = Data will be written in low density regardless of the tape drive type (high density tape drive can be used in either density mode).
- `L1` = Data will be written in low density regardless of the tape drive type (high density tape drive can be used in either density mode).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:ODD-TAPE output message.

`RL` = Retry later. Process is already running. Use Format 4 to proceed.

5. REFERENCES

Output Message(s):

`COPY:ODD-TAPE`

Other Manual(s): Where (x) is the release-specific version of the specified manual.

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235-106-10x *Software Release Retrofit Procedures*
235-106-20x *Software Release Update Procedures*

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COPY:OOSDISK

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies a specific file from an out-of-service (OOS) disk to an active system disk. This message is typically used for retrieving a file from a software backup maintained on a spare disk.

2. FORMAT

```
COPY:OOSDISK:MHD=a,SRC="b",DEST="c"[,PTN=d];
```

3. EXPLANATION OF MESSAGE

`a` = Specifies a non-active disk containing the source file (0-255).

`b` = Full pathname that specifies the file to be copied.

`c` = Pathname of the destination file.

`d` = Specifies partition number, where the source file resides in the OOS disk. If not specified, the partition corresponding to the file on the active disk will be used.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:OOSDISK output message.

5. REFERENCES

Output Message(s):

`COPY:OOSDISK`

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COPY:PID

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that data be copied from virtual addresses in main memory to the administrative module (AM) generic access package (GRASP) utility variables.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

2. FORMAT

```
COPY:PID=a,ADDR=b[,OFF=c][,L=d|,NL=e]:UVAR=f[:WORD];
```

3. EXPLANATION OF MESSAGE

`WORD` = All addresses, offsets, and lengths are to be interpreted in words, including addresses derived in address chains. If this option is omitted, values given are assumed to be in bytes.

`a` = Process ID (PID) of the target process.

`b` = The starting virtual address for the source data in decimal, octal, or hexadecimal notation.

`c` = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified.

`d` = The length of file to be copied in bytes unless the WORD option is specified. The maximum is 128 bytes or 32 words. The default is 1 byte or 1 word.

`e` = The operation will use the locations beginning 'e' lower than the calculated address and ending at the address. The locations are used in ascending order.

`f` = A GRASP utility variable (1-50), in decimal, to be written as the address of the destination of the copy. Utility variable values are reset to zero at the end of a debugging session.

4. SYSTEM RESPONSE

`?I` = General syntax error. May also include:

- `EXTRA KEYWORD (PID)` = PID is invalid in a breakpoint.
- `INCONSISTENT KEYWORDS (NL-OFF)` = Negative length not allowed without OFF.
- `INPUT ERROR (OFF COUNT)` = Too many offsets listed.
- `INVALID KEYWORD` = Destination of ADDR or REG not valid outside of a WHEN action list.
- `RANGE ERROR (L or NL)` = Length specified is too long.
- `RANGE ERROR (PID)` = Process ID is out of range.

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– `RANGE ERROR (UVAR)` = Invalid utility variable number was specified.

`NG` = No good. May also include:
`BAD PID` = The PID specified is for a process for which copies are not allowed.

`PF` = Printout follows. Followed by COPY:PID output message.

`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
COPY:UID
DUMP:PID
LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:UVAR
OP:ST-PROC
OP:UMEM
```

Output Message(s):

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
```

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COPY:PTN-ALL

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one set of disk partitions be copied into a corresponding set of partitions.

A duplex disk configuration is a prerequisite for the input message to work properly. To ensure data consistency, one of the moving head disks (MHDs) of the duplex pair will be removed from service and the data from its copy of the source partition will be copied to the destination partition on the disk which is left active. After the copy is complete, the MHD which was removed from service will be restored.

WARNING: All existing data in the destination partitions will be destroyed.

2. FORMAT

```
COPY:PTN:DATA,ALL,SRC="a",DEST="b"[,ACT];
```

3. EXPLANATION OF MESSAGE

`ACT` = Leaves the system in a duplex disk configuration as it copies the partitions.

`a` = Full pathname of a file that specifies a list of partitions, or a special device filename of a partition to be copied. Refer to the ECD/SG manual.

`b` = Full pathname of a file that contains the corresponding list of destination partitions, or the special device filename for a destination partition.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:PTN-ALL output message.

5. REFERENCES

Input Message(s):

```
CLR:FSYS-FILE
```

Output Message(s):

```
COPY:PTN-ALL
```

Other Manual(s):

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Where 'x' is the release-specific version of the specified document.
235-600-30x *ECD/SG*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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COPY:REG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that data be copied from the administrative module (AM) registers to virtual addresses in main memory and in registers as an action associated with a breakpoint.

Copies data from registers to the AM generic access package (GRASP) utility variables as either an immediate action or as an action associated with a breakpoint.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

Format 1 is executed as an action associated with a breakpoint.

Format 2 is executed as either an immediate action or as an action associated with a breakpoint.

2. FORMAT

```
[1]    COPY:REG=a[,OFF=b][,L=c]{:ADDR=e|:REG=g|:UVAR=f}[:WORD]!

[2]    COPY:REG=a[,L=c]:UVAR=f[:WORD]{!|;}
```

3. EXPLANATION OF MESSAGE

`WORD` = All addresses and lengths are in terms of words. If this option is omitted, values given are assumed to be in bytes.

`a` = Specifies a register to be read as the source for the copy. Valid value(s):

`AP`	= Argument pointer AP.
`ATBBGR`	= Register used by the ATB miss routine to temporarily store the bi-directional gating register (BGR).
`ATBPSW`	= Register used by the ATB miss routine to temporarily store the program status word (PSW) register.
`ATBQ`	= Register used by the ATB miss routine to temporarily store the 'q' register.
`ATBSAR`	= Register used by the address translation buffer (ATB) miss routine to temporarily store the store address register (SAR) contents.
`ATBSCR`	= Register used by the ATB miss routine to temporarily store the store control register (SCR) contents.
`ATBSDR`	= Register used by the ATB miss routine to temporarily store the store data register (SDR) content.
`BGR`	= Bi-directional gating register.
`CAR`	= Channel address register.
`CDR`	= Channel data register.

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ERC	= Error register (ER) clear.
FP	= Frame pointer FP.
HG	= Reserved register HG.
HSR	= Hardware status register.
HSRBGC	= Bi-directional gating control bits of the hardware status register (HSR).
IM	= Interrupt mask register IM.
ISC	= IS (interrupt source) register clear.
ISS	= Interrupt source (IS) register set.
PA	= Program address register.
PPR	= Pulse point register.
PSW	= Program status word.
R0	= General register R0.
R1	= General register R1.
R2	= General register R2.
R3	= General register R3.
R4	= General register R4.
R5	= General register R5.
R6	= General register R6.
R7	= General register R7.
R8	= General register R8.
R9	= Argument pointer AP.
R10	= Frame pointer FP.
R11	= Stack pointer SP.
RNULL	= Null register.
RTC	= Real time clock.
SBR0	= Segment base register SBR0.
SBR1	= Segment base register SBR1.
SBR2	= Segment base register SBR2.
SBR3	= Segment base register SBR3.
SBR4	= Segment base register SBR4.
SBR5	= Segment base register SBR5.
SBR6	= Segment base register SBR6.
SBR7	= Segment base register SBR7.
SCRATCH0	= JE group temp subgroup scratch register SCRATCH0.
SCRATCH1	= JE group temp subgroup scratch register SCRATCH1.
SDR	= Store data register.
SP	= Stack pointer SP.
SSRC	= System status register (SSR) clear.
SSRS	= SSR set.
SYSBASE	= Beginning address of *UNIX*® RTR Operating System tab.
T0	= JE group temp subgroup scratch register T0.
T1	= JE group temp subgroup scratch register T1.
T2	= JE group temp subgroup scratch register T2.
T3	= JE group temp subgroup scratch register T3.
T4	= JE group temp subgroup scratch register T4.
T5	= JE group temp subgroup scratch register T5.
T6	= JE group temp subgroup scratch register T6.
T7	= JE group temp subgroup scratch register T7.
TIMERS	= Timing circuit.

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`TOPIS` = Interrupt stack pointer.
`UINT0` = Error microinterrupt hander register UINT0.
`UINT1` = Error microinterrupt hander register UINT1.
`UINT2` = Error microinterrupt hander register UINT2.
`UINT3` = Error microinterrupt hander register UINT3.
`UINTER` = Shadow error register (uint_er) loaded during an error microinterrupt.

`b` = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified. (Used as an action associated with a breakpoint.)

`c` = The length of the copy assumed to be in bytes unless the WORD option is specified. The maximum is 128 bytes or 32 words. The default for an omitted or zero length is 1.

`e` = Specifies the destination virtual address for the data in decimal, octal, or hexadecimal notation. (Used as an action associated with a breakpoint.)

`f` = Specifies a GRASP utility variable (1-50), in decimal, to be written as the destination copy. Utility variable values are reset to 0 at the end of a debugging session. (Can be used as an immediate action or associated with a breakpoint.)

`g` = Specifies the register to be written as the destination copy. (Used as an action associated with a breakpoint.) Valid value(s):

AP	HSR	R3	SBR4	T2
ATBBGR	HSRBGC	R4	SBR5	T3
ATBPSW	IM	R5	SBR6	T4
ATBQ	ISC	R6	SBR7	T5
ATBSAR	ISS	R7	SCRATCH0	T6
ATBSCR	PA	R8	SCRATCH1	T7
ATBSDR	PPR	R9	SDR	TIMERS
BGR	PSW	RNULL	SP	TOPIS
CAR	R0	RTC	SSRC	UINT0
CDR	R1	SBR0	SSRS	UINT1
ERC	R10	SBR1	SYSBASE	UINT2
FP	R11	SBR2	T0	UINT3
HG	R2	SBR3	T1	UINTER

4. SYSTEM RESPONSE

`?I` = General syntax error. Valid value(s):
- `EXTRA KEYWORD (OFF)` = Indirection not allowed except as action of a WHEN.
- `INCONSISTENT KEYWORDS (NL-OFF)` = Negative length not allowed without OFF.
- `INVALID KEYWORD` = Destination of ADDR or REG not valid outside of a WHEN action list.
- `RANGE ERROR (UVAR)` = Invalid utility variable number was specified.
- `RANGE ERROR` = Length specified is too long.

`IP` = In progress. The message has been added to the WHEN action list.

`NG` = No good. Valid value(s):
- `BAD REG NAME` = A named register is not a valid source or destination.

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PF = Printout follows. Followed by the COPY:REG output message.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
DUMP:REG
LOAD:ADDR
LOAD:REG
LOAD:UVAR
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Message(s):

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
```

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COPY:SPDISK

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies a specific partition, or a list of partitions, from one of the system disks to an active spare disk. This input message is typically used for generating a backup copy of the software on a system disk. The system disk pair must be duplexed to use this input message.

2. FORMAT

```
COPY:SPDISK:SRC="a",DEST="b";
```

3. EXPLANATION OF MESSAGE

`a` = Full pathname of a file that contains a list of partitions, or a special device file name of a partition, to be copied. Refer to the ECD/SG manual.

`b` = Filename for the corresponding list of destination partitions, or the special device filename for a destination partition.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:SPDISK output message.

5. REFERENCES

Output Message(s):

```
COPY:SPDISK
```

Other Manual(s):

Where 'x' is the release-specific version of the specified document.
235-600-30x *ECD/SG*

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COPY:TAPE-DATA

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies a task oriented practice (TOP) file(s) from disk to tape. A TOP file contains writable microcode and the load disk from tape (LDFT) program used for a "deadstart." If the COM option is specified, the very large main memory (VLMM) TOP file and 3B21D TOP file are copied from disk to tape, strictly in that order. Otherwise, a hardware-platform-specific TOP file is copied. For example, if the current hardware platform is VLMM, /etc/topfile64 or /etc/topfile is copied to tape.

2. FORMAT

```
COPY:TAPE:DATA,TOP,TD="a"[,COM];
```

3. EXPLANATION OF MESSAGE

COM = Option used to create a common TOP tape which consists of both the VLMM TOP file and the 3B21D TOP file.

NOTE: The input message with the COM option does not copy the standard main memory (SMM) or extended main memory (EMM) TOP file. If this option is not specified, the TOP file copied to tape will be the one for the current hardware platform. Refer to the example in the PURPOSE section.

a = Tape special device file name. Refer to the User Guidelines, for definition and examples of tape device names.

4. SYSTEM RESPONSE

PF Printout follows.

5. REFERENCES

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COPY:TAPE-EMERDMP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies data from the emergency dump partition on a disk to a magnetic tape.

NOTE: If the resulting tape is to be read on a *UNIX*® system, it must be read using the 'dd' input message.

2. FORMAT

```
COPY:TAPE,EMERDMP,TD="a";
```

3. EXPLANATION OF MESSAGE

`a` = Tape special device file name. Refer to the Summary of Pathnames table in the User Guidelines of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:TAPE-EMERDMP output message.

5. REFERENCES

Input Message(s):

```
CLR:EMERDMP
OP:EMERSTAT
OP:ST-FILESYS
```

Output Message(s):

```
COPY:TAPE-EMERDMP
REPT:EMER-DUMP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operation and Maintenance*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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COPY:TAPE-IN

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Copies files from a magnetic tape containing full or relative pathnames and header information, and places them in their respective directories. This input message can also print a table of contents of the tape.

WARNING: If the full path was specified in the COPY:TAPE-OUT input message, directory information is retained and the file will be placed in the same directory it was copied from, overwriting any existing version.

NOTE: If the tape to be read was written on a *UNIX*® system, it must have been written using the cpio message with the -c option.

2. FORMAT

```
COPY:TAPE,IN,TD="a"[,TOC]|[,BSDIR="b"];
```

3. EXPLANATION OF MESSAGE

`TOC` = Table of contents. Prints a list of the files on the tape with their status information. No files are created.

`a` = Tape special device file name. Refer to Table 3 in the User Guidelines of the Input Messages manual.

`b` = Pathname of the base directory into which the files on the tape will be copied. Refer to the User Guidelines of the Input Messages manual for definitions of pathname and directory.

NOTE: If the relative path was specified in the COPY:TAPE-OUT input message, the default base directory is /cft/shl/cmds. Use the BSDIR option to specify an alternate base directory.

Remember, the BSDIR option does not apply if the full pathname was specified in the COPY:TAPE-OUT input message. Use the TOC option of COPY:TAPE-IN to determine how a file or list of files, were copied to tape, whether by relative pathnames or by full pathnames.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:TAPE-IN output message.

5. REFERENCES

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Input Message(s):

```
COPY:TAPE-OUT
```

Output Message(s):

```
COPY:TAPE-IN
COPY:TAPE-OUT
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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COPY:TAPE-OUT

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Copies one or more files to a magnetic tape, along with full or relative pathnames and header (status) information.

Format 1 is used to copy one or more files with full pathnames. Refer to the User Guidelines of the Input Messages manual for a definition of full pathnames.

WARNING: Use extreme caution when invoking this input message with full pathnames. Reading a tape which contains full pathnames may destroy existing data.

Format 2 is used to copy one or more files with relative pathnames. Refer to the User Guidelines of the Input Messages manual for a definition of relative pathnames.

NOTE: If the resulting tape is to be read on a *UNIX*® system, it must be read using the 'cpio' input message with the -c options.

2. FORMAT

```
[1]    COPY:TAPE,OUT,TD="a"{,FN="b"|,FLIST="c"};

[2]    COPY:TAPE,OUT,TD="a"{,FN="d"|,FLIST="e"},BSDIR="f";
```

3. EXPLANATION OF MESSAGE

`a` = Tape special device file name. Refer to Table 3 in the User Guidelines of the Input Messages manual for examples of tape device names.

`b` = Full pathname of the single file to be written to the tape.

`c` = Pathname of a file that contains a list of full pathnames of the files to be written to the tape. Used if two or more files are to be written.

`d` = Relative pathname of the single file to be written to the tape. Specify the base directory with the BSDIR option.

`e` = Pathname of a relative file that contains a list of pathnames of the files to be written to the tape. Used if two or more files are to be written. Specify the base directory with the BSDIR option.

`f` = Pathname of the base directory where the file to be copied to tape is located. Relative pathnames are relative to this directory.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:TAPE-OUT output message.

5. REFERENCES

Input Message(s):

`COPY:TAPE-IN`

Output Message(s):

`COPY:TAPE-IN`
`COPY:TAPE-OUT`

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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COPY:TAPE-TEST

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Writes the diagnostic test tape header block onto a magnetic tape. A demand diagnostic phase for the tape unit verifies the tape has this header block (in low density) before using the tape for testing.

2. FORMAT

```
COPY:TAPE,TEST,TD="a";
```

3. EXPLANATION OF MESSAGE

`a` = Tape special device file name. Select low density and rewind. The diagnostic phase will not accept the tape if the header block is written in high density. Refer to the Summary of Pathnames table in the User Guidelines of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:TAPE-TEST output message.

5. REFERENCES

Output Message(s):

`COPY:TAPE-TEST`

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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COPY:TAPE-TOP

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Copies a tape-only program (TOP) file from disk to tape. A TOP file contains writable microcode and the load disk from tape (LDFT) program used for a "deadstart."

NOTE: When specifying a DAT as the tape device, COPY:TAPE-TOP will always use a DAT device which writes low density (uncompressed) data to satisfy a requirement of LDFT processing. In the event that the specified DAT device writes high density (compressed) data, COPY:TAPE-TOP will override the selection and use the equivalent low density DAT device. For example, if the high density rewind DAT device (/dev/mt00) is specified, COPY:TAPE-TOP will override the selection and use the low density rewind DAT device (/dev/mt08).

2. FORMAT

```
COPY:TAPE:TOP,TD "a",[COM]!
```

3. EXPLANATION OF MESSAGE

`COM` = Option used to create a common TOP tape consisting of both the VLMM TOP file and the 3B21D TOP file.

This option does not copy the standard main memory (SMM) or extended main memory (EMM) TOP file.

If the COM option is specified, the very large main memory (VLMM) TOP file and the 3B21D TOP file are copied from disk to tape, strictly in that order.

If this option is not specified, the TOP file copied to tape will be the one for the current hardware platform. For example, if the current hardware platform is VLMM, `/etc/topfile64` or `/etc/topfile` is copied to tape.

`a` = Tape special device file name. Refer to the **Note** in the **PURPOSE** section for additional information. Also, refer to the User Guidelines for definitions and examples of tape device names.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the COPY:TAPE-TOP output message.

5. REFERENCES

Output Message(s):

```
COPY:TAPE-TOP
```

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COPY:UID

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that data be copied from virtual addresses in main memory to administrative module (AM) generic access package (GRASP) utility variables as an immediate action.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

2. FORMAT

```
COPY:UID=a,ADDR=b[,OFF=c][,L=d|,NL=e]:UVAR=f[:WORD];
```

3. EXPLANATION OF MESSAGE

`WORD` = All addresses, offsets, and lengths are to be interpreted in words, including addresses derived in address chains. If this option is omitted, values given are assumed to be in bytes.

`a` = The utility ID (UID) of the process from which the source data will be copied.

`b` = The starting virtual address for the data in decimal, octal, or hexadecimal notation.

`c` = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified.

`d` = The length of the copy in bytes unless the WORD option is specified. The maximum is 128 bytes or 32 words. The default is 1 byte or 1 word.

`e` = The operation will use the locations beginning '`e`' lower than the calculated address and ending at the address. The locations are used in ascending order.

`f` = A GRASP utility variable (1-50), in decimal, to be written as the destination copy. Utility variable values are reset to 0 at the end of a debugging session.

4. SYSTEM RESPONSE

`?I` = General syntax error. May also include:

- `EXTRA KEYWORD (UID)` = UID is not valid in a WHEN action list.
- `EXTRA KEYWORD (UID)` = UID is invalid in a breakpoint.
- `INCONSISTENT KEYWORDS (NL-OFF)` = Negative length not allowed without OFF.
- `INVALID KEYWORD` = Destination of ADDR or REG not valid outside of a WHEN action list.
- `RANGE ERROR (UID)` = Utility ID is out of range.
- `RANGE ERROR (UVAR)` = Invalid utility variable number was specified.

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- `RANGE ERROR (L or NL)` = Length specified is too long.
- `INPUT ERROR (OFF COUNT)` = Too many offsets listed.

`NG` = No good. May also include:
- `BAD UID` = The UID specified is for a process for which copies are not allowed.

`PF` = Printout follows. Followed by the COPY:UID output message.

`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
COPY:PID
DUMP:UID
LOAD:UVAR
OP:UMEM
```

Output Message(s):

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
```

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COPY:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the communications module processor (CMP), and optionally perform any of the following operations:

To perform:	Use:
increment operation	target(1) = value(2) oper=plus value(3)
decrement operation	target(1) = value(2) oper=minus value(3)
multiply operation	target(1) = value(2) oper=mult value(3)
divide operation	target(1) = value(2) oper=div value(3)
logical AND operation	target(1) = value(2) oper=and value(3)
logical OR operation	target(1) = value(2) oper=or value(3)
logical XOR operation	target(1) = value(2) oper=xor value(3)
logical shift left operation	target(1) = value(2) oper=shl value(3)
logical shift right operation	target(1) = value(2) oper=shr value(3)
invert operation	target(1) = value(2) oper=invert

This message may be used together with any of the other CMP generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
COPY:UT:CMP=a,{MATE|PRIM},{ADDR1=b|REG1=c|UVAR1=d|GVAR1="e"|
SYMIDX1=f}[,L1=g][,INDIR1=h][,OFF1=i[-i[-i]]],EQ[,EA2],
{ADDR2=j|REG2=k|UVAR2=l|GVAR2="m"|SYMIDX2=n|VAL2=o}[,L2=p]
[,INDIR2=q][,OFF2=r[-r[-r]]][,oper=s][,EA3]
[,{ADDR3=t|REG3=u|UVAR3=v|GVAR3="w"|SYMIDX3=x|VAL3=y}][,L3=z]
[,INDIR3=a1][,OFF3=b1[-b1[-b1]]]{!|;}
```

3. EXPLANATION OF MESSAGE

Note: Variables 'b' through 'i' are field one of the copy input message, this field is also described as the target field.

Note: Variables 'j' through 'r' are field two of the copy input message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

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Note: Variables 's' through 'b[1]' are field three of the copy input message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of the copy input message.

EA2 = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

MATE = Execute this input message on the standby CMP.

PRIM = Execute this input message on the active CMP.

a = CMP number.

b = Address that the value is copied into.

c = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied into. Name of a specific register whose data is to be dumped. The following registers can be used:

1 If switch CM complex is a Model 3, the registers are general purpose registers GPR0, GPR2-GPR31, SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, integer exception XER, external interrupt mask register EIMR (from module procssor), and the system management interrupt mask register SMIMR (from module processor).

2 If switch CM complex is Model 2 or earlier, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, or status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

d = Utility variable (0-14) that the value is copied into.

e = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'f' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

h = Level of indirection (0-3) for the first part of the message. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However,

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offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

j = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

k = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied from. Name of a specific register that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

l = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

m = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number 'n' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

n = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

o = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

p = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2 and SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

q = Level of indirection (0-3) for the second part of the message. Default is 0.

r = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

s = Legal operator. Valid value(s):

- `and` = Performs logical "and" of the value in field 2 with the value of field 3.
- `div` = Divides the value of field 2 by the value of field 3.
- `invert` = Performs a logical binary inversion of the value in field 2.
- `minus` = Subtracts the value of field 3 from the value of field 2.

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`mult`	= Multiplies the value of field 3 with the value of field 2.
`or`	= Performs logical "or" of the value in field 2 with the value of field 3.
`plus`	= Adds the value of field 3 to the value of field 2.
`shl`	= Shifts left the value in field 2 by the value of field 3.
`shr`	= Shifts right the value in field 2 by the value of field 3.
`xor`	= Performs logical "exclusive or" of the value in field 2 with the value of field 3.

`t` = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

`u` = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message. Name of register whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy command. The following registers can be used:

1	If switch CM complex is a Model 3, the registers are (general purpose registers GPR0, GPR2-GPR31, SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, XER, external interrupt mask register EIMR, and the system management interrupt mask register SMIMR).
2	If switch CM complex is Model 2 or earlier, the registers are (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR).

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

`v` = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

`w` = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`x`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`x` = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`y` = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

`z` = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes - 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

`a`[1] = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

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`b[1]` = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
COPY:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-600-400 *Audits*

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COPY:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the packet interface (PI) unit and optionally perform any of the following operations.

To perform:	Use:
increment operation	target(1) = value(2) oper=plus value(3)
decrement operation	target(1) = value(2) oper=minus value(3)
multiply operation	target(1) = value(2) oper=mult value(3)
divide operation	target(1) = value(2) oper=div value(3)
logical AND operation	target(1) = value(2) oper=and value(3)
logical OR operation	target(1) = value(2) oper=or value(3)
logical XOR operation	target(1) = value(2) oper=xor value(3)
logical shift left operation	target(1) = value(2) oper=shl value(3)
logical shift right operation	target(1) = value(2) oper=shr value(3)
invert operation	target(1) = value(2) oper=invert

Note: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
COPY:UT:MCTSI=a-b,PI,{ADDR1=c|REG1=d|UVAR1=e|GVAR1="f"|SYMIDX1=g}
[,L1=h][,INDIR1=i][,OFF1=j[-j[-j]]],EQ
[,EA2],{ADDR2=k|REG2=l|UVAR2=m|GVAR2="n"|SYMIDX2=o|VAL2=p}
[,L2=q][,INDIR2=r][,OFF2=s[-s[-s]]]
[,oper=t][,EA3][,{ADDR3=u|REG3=v|UVAR3=w|GVAR3="x"|SYMIDX3=y|VAL3=z}]
[,L3=a1][,INDIR3=b1][,OFF3=c1[-c1[-c1]]]{!|;}
```

3. EXPLANATION OF MESSAGE

Note: Variables 'c' through 'j' are field one of this input message, this field is also described as the target field.

Note: Variables 'k' through 's' are field two. This field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field.

Note: Variables 't' through 'c1' are field three. This field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two.

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`EA2` = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the second part of this input message.

`EA3` = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the third part of this input message.

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

`c` = Address that the value is copied into.

`d` = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied into.

Note: This option of this input message can only be used as part of a generic utilities WHEN input clause.

`e` = Utility variable (UVAR) (0-14) that the value is copied into.

`f` = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`h` = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

`i` = Level of indirection (0-3) for the first part of the message. Default is 0.

`j` = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

`k` = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field.

`l` = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field.

Note: This option of this input message can only be used as part of a generic utilities WHEN input clause.

`m` = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field.

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`n` = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number '`o`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`o` = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

`p` = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field.

`q` = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2 and SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

`r` = Level of indirection (0-3) for the second part of the message. Default is 0.

`s` = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

`t` The arithmetic operators that can be used. Valid value(s):

`and`	= Performs logical "and" of the value in field 2 with the value of field 3.
`div`	= Divides the value of field 2 by the value of field 3.
`invert`	= Performs a logical binary inversion of the value in field 2.
`minus`	= Subtracts the value of field 3 from the value of field 2.
`mult`	= Multiplies the value of field 3 with the value of field 2.
`or`	= Performs logical "or" of the value in field 2 with the value of field 3.
`plus`	= Adds the value of field 3 to the value of field 2.
`shl`	= Shifts left the value in field 2 by the value of field 3.
`shr`	= Shifts right the value in field 2 by the value of field 3.
`xor`	= Performs logical "exclusive or" of the value in field 2 with the value of field 3.

`u` = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field.

`v` = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field.

Note: This option of this input message can only be used as part of a generic utilities WHEN input clause.

`w` = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field.

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`x` = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`y`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`y` = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`z` = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field.

`a`[1] = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

`b`[1] = Level of the indirection (0-3) for the third field. Default is 0.

`c`[1] = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
DUMP:UT-SYMID
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Output Appendix(es):

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```
APP:UT-OM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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COPY:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform any of the following operations:

To perform:	Use:
increment operation	target(1) = value(2) oper=plus value(3)
decrement operation	target(1) = value(2) oper=minus value(3)
multiply operation	target(1) = value(2) oper=mult value(3)
divide operation	target(1) = value(2) oper=div value(3)
logical AND operation	target(1) = value(2) oper=and value(3)
logical OR operation	target(1) = value(2) oper=or value(3)
logical XOR operation	target(1) = value(2) oper=xor value(3)
logical shift left operation	target(1) = value(2) oper=shl value(3)
logical shift right operation	target(1) = value(2) oper=shr value(3)
invert operation	target(1) = value(2) oper=invert

`Note:` This input message is only supported on PSUPHs of the PH3/PH4 and later hardware types (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
COPY:UT:PSUPH=a-b-c-d,{ADDR1=e|REG1=f|UVAR1=g|GVAR1="h"|...
...SYMIDX1=i}[,L1=j][,INDIR1=k][,OFF1=l[-l[-l]]],EQ...
...[,EA2],{ADDR2=m|REG2=n|UVAR2=o|GVAR2="p"|SYMIDX2=q|VAL2=r}...
...[,L2=s][,INDIR2=t][,OFF2=u[-u[-u]]][,oper=v][,EA3][,...
...{ADDR3=w|REG3=x|UVAR3=y|GVAR3="z"|SYMIDX3=a1|VAL3=b1}]...
...[,L3=c1][,INDIR3=d1][,OFF3=e1[-e1[-e1]]]{!|;}
```

3. EXPLANATION OF MESSAGE

Note: Variables '`e`' through '`l`' are field one of the copy input message. This field is also described as the target field.

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Note: Variables 'm' through 'u' are field two of the copy input message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

Note: Variables 'v' through 'e1' are field three of the copy input message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of the copy input message and is optional.

EA2 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address that the value is copied into.

f = Name of a specific register whose data is to be dumped. The following registers can be used:

- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

g = Utility variable (UVAR) (0-14) that the value is copied into.

h = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'i' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

i = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

j = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for

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UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

k = Level of indirection (0-3) for the first part of the message. Default is 0.

l = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

m = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

n = Name of a specific register that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message. The following registers can be used:

- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

o = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

p = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number 'q' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

q = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

r = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

s = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2, SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

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`t` = Level of indirection (0-3) for the second part of the message. Default is 0.

`u` = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

`v` = Legal operator. Valid value(s):

`and`	= Performs logical "and" of the value in field 2 with the value of field 3.
`div`	= Divides the value of field 2 by the value of field 3.
`invert`	= Performs a logical binary inversion of the value in field 2.
`minus`	= Subtracts the value of field 3 from the value of field 2.
`mult`	= Multiplies the value of field 3 with the value of field 2.
`or`	= Performs logical "or" of the value in field 2 with the value of field 3.
`plus`	= Adds the value of field 3 to the value of field 2.
`shl`	= Shifts left the value in field 2 by the value of field 3.
`shr`	= Shifts right the value in field 2 by the value of field 3.
`xor`	= Performs logical "exclusive or" of the value in field 2 with the value of field 3.

`w` = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

`x` = Name of register whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy command. The following registers can be used:

- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

`y` = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

`z` = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`a`[1]' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`a`[1] = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`b`[1] = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

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`c`[1] = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

`d`[1] = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

`e`[1] = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
COPY:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:RANGES
APP:UT-OM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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COPY:UT-PSUPH-B

Software Release: 5E16(1) - 5E20(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations. These include:

To perform:	Use:
increment operation	target(1) = value(2) oper=plus value(3)
decrement operation	target(1) = value(2) oper=minus value(3)
multiply operation	target(1) = value(2) oper=mult value(3)
divide operation	target(1) = value(2) oper=div value(3)
logical AND operation	target(1) = value(2) oper=and value(3)
logical OR operation	target(1) = value(2) oper=or value(3)
logical XOR operation	target(1) = value(2) oper=xor value(3)
logical shift left operation	target(1) = value(2) oper=shl value(3)
logical shift right operation	target(1) = value(2) oper=shr value(3)
invert operation	target(1) = value(2) oper=invert

This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
COPY:UT:PSUPH=a-b-c-d,{ADDR1=e|REG1=f|UVAR1=g|GVAR1="h"|
SYMIDX1=i}[,L1=j][,INDIR1=k][,OFF1=l[-l[-l]]],EQ
[,EA2],{ADDR2=m|REG2=n|UVAR2=o|GVAR2="p"|SYMIDX2=q|VAL2=r}
[,L2=s][,INDIR2=t][,OFF2=u[-u[-u]]][,oper=v][,EA3][,
{ADDR3=w|REG3=x|UVAR3=y|GVAR3="z"|SYMIDX3=a1|VAL3=b1}]
[,L3=c1][,INDIR3=d1][,OFF3=e1[-e1[-e1]]]{!|;}
```

3. EXPLANATION OF MESSAGE

NOTE 1: Variables 'e' through 'l' are field one of the copy input message. This field is also described as the target field.

NOTE 2: Variables 'm' through 'u' are field two of the copy input message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using

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one of the arithmetic operators together with the third field of the copy input message.

NOTE 3: Variables 'v' through 'e^1' are field three of the copy input message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of the copy input message and is optional.

EA2 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address that the value is copied into.

f = Name of a specific register whose data is to be dumped. Valid value(s):

PSUPH Hardware Type:	**Registers:**
PHV5, PHV6, PH31, PHA2, or PHE2	GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. SP = Stack pointer SP (also known as GPR1). LR = Link register. PC = Program counter. CTR = Count register. CR = Condition register. MSR = Machine state register. XER = Exception register XER.
PH[3-4,6,22], PHA or PHV[1-4]	A0-A5 = Address registers. A6 = the frame pointer FP. A7 = Stack pointer SP. D0-D7 = Data registers. PC = Program counter. SR = Status register SR.

NOTE: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

g = Utility variable (UVAR) (0-14) that the value is copied into.

h = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15

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characters the symbol index number 'i' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

i = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

j = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

k = Level of indirection (0-3) for the first part of the message. Default is 0.

l = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

m = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

n = Name of a specific register that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message. The following registers can be used:

- If PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

NOTE: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

o = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

p = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number 'q' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

q = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

r = Value to be copied. This value can be modified by using one of the arithmetic operators together with

any one of the addressing modes (or value) contained in the third field of the copy input message.

`s` = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2, SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

`t` = Level of indirection (0-3) for the second part of the message. Default is 0.

`u` = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

`v` = Legal operator. Valid value(s):

`and` = Performs logical "and" of the value in field 2 with the value of field 3.
`div` = Divides the value of field 2 by the value of field 3.
`invert` = Performs a logical binary inversion of the value in field 2.
`minus` = Subtracts the value of field 3 from the value of field 2.
`mult` = Multiplies the value of field 3 with the value of field 2.
`or` = Performs logical "or" of the value in field 2 with the value of field 3.
`plus` = Adds the value of field 3 to the value of field 2.
`shl` = Shifts left the value in field 2 by the value of field 3.
`shr` = Shifts right the value in field 2 by the value of field 3.
`xor` = Performs logical "exclusive or" of the value in field 2 with the value of field 3.

`w` = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

`x` = Name of register whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy message. The following registers can be used:

- If PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

NOTE: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

`y` = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

`z` = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`a`[1]' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

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a[1] = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

b[1] = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

c[1] = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

d[1] = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

e[1] = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
COPY:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:RANGES
APP:UT-OM-REASON
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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COPY:UT-PSUPH-C

Software Release: 5E21(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations. These include:

To perform:	Use:
increment operation	target(1) = value(2) oper=plus value(3)
decrement operation	target(1) = value(2) oper=minus value(3)
multiply operation	target(1) = value(2) oper=mult value(3)
divide operation	target(1) = value(2) oper=div value(3)
logical AND operation	target(1) = value(2) oper=and value(3)
logical OR operation	target(1) = value(2) oper=or value(3)
logical XOR operation	target(1) = value(2) oper=xor value(3)
logical shift left operation	target(1) = value(2) oper=shl value(3)
logical shift right operation	target(1) = value(2) oper=shr value(3)
invert operation	target(1) = value(2) oper=invert

This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
COPY:UT:PSUPH=a-b-c-d,{ADDR1=e|REG1=f|UVAR1=g|GVAR1="h"|
SYMIDX1=i}[,L1=j][,INDIR1=k][,OFF1=l[-l[-l]]],EQ
[,EA2],{ADDR2=m|REG2=n|UVAR2=o|GVAR2="p"|SYMIDX2=q|VAL2=r}
[,L2=s][,INDIR2=t][,OFF2=u[-u[-u]]][,oper=v][,EA3][,
{ADDR3=w|REG3=x|UVAR3=y|GVAR3="z"|SYMIDX3=a1|VAL3=b1}]
[,L3=c1][,INDIR3=d1][,OFF3=e1[-e1[-e1]]]{!|;}
```

3. EXPLANATION OF MESSAGE

NOTE 1: Variables 'e' through 'l' are field one of the copy input message. This field is also described as the target field.

NOTE 2: Variables 'm' through 'u' are field two of the copy input message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using

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one of the arithmetic operators together with the third field of the copy input message.

NOTE 3: Variables 'v' through 'e^1' are field three of the copy input message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of the copy input message and is optional.

EA2 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address that the value is copied into.

f = Name of a specific register whose data is to be dumped. Valid value(s):

PSUPH Hardware Type:	**Registers:**
PH[3-4,6,22], PHA or PHV[1-4]	= Registers. Valid value(s): A0-A5 = Address registers. A6 = The frame pointer (FP). A7 = Stack pointer (SP). D0-D7 = Data registers. PC = Program counter. SR = Status register (SR).
All other PSUPH hardware types	GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. SP = Stack pointer SP (also known as GPR1). LR = Link register. PC = Program counter. CTR = Count register. CR = Condition register. MSR = Machine state register. XER = Exception register XER. ***NOTE:*** This option can only be used as part of a generic utilities WHEN input message clause.

g = Utility variable (UVAR) (0-14) that the value is copied into.

h = Symbolic name of the global variable that the value is copied into. The name is entered as a

string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'i' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

i = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

j = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

k = Level of indirection (0-3) for the first part of the message. Default is 0.

l = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

m = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

n = Name of a specific register that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message. The following registers can be used:

- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.
- If PSUPH is any other hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.

  NOTE: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

o = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

p = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number 'q' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

q = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using

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one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

`r` = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

`s` = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2, SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

`t` = Level of indirection (0-3) for the second part of the message. Default is 0.

`u` = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

`v` = Legal operator. Valid value(s):

`and`	= Performs logical "and" of the value in field 2 with the value of field 3.
`div`	= Divides the value of field 2 by the value of field 3.
`invert`	= Performs a logical binary inversion of the value in field 2.
`minus`	= Subtracts the value of field 3 from the value of field 2.
`mult`	= Multiplies the value of field 3 with the value of field 2.
`or`	= Performs logical "or" of the value in field 2 with the value of field 3.
`plus`	= Adds the value of field 3 to the value of field 2.
`shl`	= Shifts left the value in field 2 by the value of field 3.
`shr`	= Shifts right the value in field 2 by the value of field 3.
`xor`	= Performs logical "exclusive or" of the value in field 2 with the value of field 3.

`w` = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

`x` = Name of register whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy message. The following registers can be used:

- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.
- If PSUPH is any other hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.

  NOTE: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

`y` = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

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z = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'a[1]' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

a[1] = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

b[1] = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

c[1] = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

d[1] = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

e[1] = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
COPY:UT-PSUPH
```

Input Appendix(es):

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```
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:RANGES
APP:UT-OM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

COPY:UT-SM-A

Software Release: 5E15 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, variable, or utility variable of the switching module (SM), and can perform any of the following operations:

To perform:	Use:
increment operation	target(1) = value(2) oper=plus value(3)
decrement operation	target(1) = value(2) oper=minus value(3)
multiply operation	target(1) = value(2) oper=mult value(3)
divide operation	target(1) = value(2) oper=div value(3)
logical AND operation	target(1) = value(2) oper=and value(3)
logical OR operation	target(1) = value(2) oper=or value(3)
logical XOR operation	target(1) = value(2) oper=xor value(3)
logical shift left operation	target(1) = value(2) oper=shl value(3)
logical shift right operation	target(1) = value(2) oper=shr value(3)
invert operation	target(1) = value(2) oper=invert

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
COPY:UT:SM=a[,MATE1],{ADDR1=b|REG1=c|UVAR1=d|GVAR1="e"|SYMIDX1=f}
[,L1=g][,INDIR1=h][,OFF1=i[-i[-i]]],EQ
[,MATE2][,EA2],{ADDR2=j|REG2=k|UVAR2=l|GVAR2="m"|SYMIDX2=n|VAL2=o}
[,L2=p][,INDIR2=q][,OFF2=r[-r[-r]]][,oper=s][,MATE3]
[,EA3][,{ADDR3=t|REG3=u|UVAR3=v|GVAR3="w"|SYMIDX3=x|VAL3=y}][,L3=z]
[,INDIR3=a1][,OFF3=b1[-b1[-b1]]]{!|;}
```

3. EXPLANATION OF MESSAGE

Note: Variables 'b' through 'i' are field one of this message, this field is also described as the target field.

Note: Variables 'j' through 'r' are field two of this message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

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Note: Variables 's' through 'b[1]' are field three of this message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of this message.

EA2 = The value which is to be copied is the effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

MATE1 = Address, utility variable or symbolic address specified in the first part of the message is in MATE memory (default is active). REG1 and UVAR1 may be used with MATE1 only if a level of indirection is specified.

MATE2 = Address, utility variable or symbolic address specified in the second part of the message is in MATE memory (default is active). REG2 and UVAR2 may be used with MATE2 only if a level of indirection is specified.

MATE3 = Address, register, utility variable or symbolic address specified in the third part of the message is in MATE memory. REG3 and UVAR3 may be used with MATE3 only if a level of indirection is specified.

a = SM number.

b = Address that the value is to be copied into.

c = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is to be copied into.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

d = Utility variable (0-14) that the value is to be copied into.

e = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'f' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

h = Level of indirection (0-3) for the first part of the message. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

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`j` = Address that the value is to be copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

`k` = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is to be copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this message.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

`l` = Utility variable (0-14) that the value is to be copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this message.

`m` = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number '`n`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`n` = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

`o` = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this message.

`p` = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2 and SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

`q` = Level of indirection (0-3) for the second part of the message. Default is 0.

`r` = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

`s` = Legal operator. Valid value(s):

- `and` = Performs logical "and" of the value in field 2 with the value of field 3.
- `div` = Divides the value of field 2 by the value of field 3.
- `invert` = Performs a logical binary inversion of the value in field 2.
- `minus` = Subtracts the value of field 3 from the value of field 2.
- `mult` = Multiplies the value of field 3 with the value of field 2.
- `or` = Performs logical "or" of the value in field 2 with the value of field 3.
- `plus` = Adds the value of field 3 to the value of field 2.
- `shl` = Shifts left the value in field 2 by the value of field 3.

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`shr` = Shifts right the value in field 2 by the value of field 3.
`xor` = Performs logical "exclusive or" of the value in field 2 with the value of field 3.

`t` = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

`u` = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.
Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

`v` = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

`w` = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`x`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`x` = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`y` = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

`z` = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

`a`[1] = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

`b`[1] = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
```

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```
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
COPY:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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COPY:UT-SM-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the switching module (SM), and can perform specific operations. These include:

To perform:	Use:
increment operation	target(1) = value(2) oper=plus value(3)
decrement operation	target(1) = value(2) oper=minus value(3)
multiply operation	target(1) = value(2) oper=mult value(3)
divide operation	target(1) = value(2) oper=div value(3)
logical AND operation	target(1) = value(2) oper=and value(3)
logical OR operation	target(1) = value(2) oper=or value(3)
logical XOR operation	target(1) = value(2) oper=xor value(3)
logical shift left operation	target(1) = value(2) oper=shl value(3)
logical shift right operation	target(1) = value(2) oper=shr value(3)
invert operation	target(1) = value(2) oper=invert

The microprocessor registers used in this message will vary based on the SM software configuration. If the software configuration is CNFG2KPPC the microprocessor is *PowerPC*® based. All others configurations are M680x0 based.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

During patch space recovery operation, UT will modify its normal behavior to force non-mate operation to write only the local memory even if both MCTSIs are in service. Therefore, in order to have operations happen on both sides, the user needs to run the command twice, first for the active side, then for the mate side.

2. FORMAT

```
COPY:UT:SM=a[,MATE1],{ADDR1=b|REG1=c|UVAR1=d|GVAR1="e"|
SYMIDX1=f}[,L1=g][,INDIR1=h][,OFF1=i[-i[-i]]],EQ
[,MATE2][,EA2],{ADDR2=j|REG2=k|UVAR2=l|GVAR2="m"|SYMIDX2=n|
VAL2=o}[,L2=p][,INDIR2=q][,OFF2=r[-r[-r]]][,oper=s][,MATE3]
[,EA3][,{ADDR3=t|REG3=u|UVAR3=v|GVAR3="w"|SYMIDX3=x|VAL3=y}]
[,L3=z][,INDIR3=a1][,OFF3=b1[-b1[-b1]]]{!|;}
```

3. EXPLANATION OF MESSAGE

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NOTE 1: Variables 'b' through 'i' are field one of this message, this field is also described as the target field.

NOTE 2: Variables 'j' through 'r' are field two of this message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

NOTE 3: Variables 's' through 'b1' are field three of this message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of this message.

EA2 = The value which is to be copied is the effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

MATE1 = Address, utility variable or symbolic address specified in the first part of the message is in MATE memory (default is active and mate unless it is during patch space recovery operation). REG1 and UVAR1 may be used with MATE1 only if a level of indirection is specified.

MATE2 = Address, utility variable or symbolic address specified in the second part of the message is in MATE memory (default is active and mate unless it is during patch space recovery operation). REG2 and UVAR2 may be used with MATE2 only if a level of indirection is specified.

MATE3 = Address, register, utility variable or symbolic address specified in the third part of the message is in MATE memory (default is active and mate unless it is during patch space recovery operation). REG3 and UVAR3 may be used with MATE3 only if a level of indirection is specified.

a = SM number.

b = Address that the value is to be copied into.

c = Name of a specific register where data is copied to. Valid value(s):

SM Software Configuration:	**Registers:**
CNFG2KPPC	CR = Condition register. CTR = Count register. GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. LR = Link register. MSR = Machine state register. PC = Program counter. SP = Stack pointer register (also known as GPR1). XER = The external interrupt mask register (integer exception).
Not CNFG2KPPC	A0-A5 = Address registers. A6 = The frame pointer (FP). A7 = The stack pointer (SP). D0-D7 = Data registers. PC = Program counter.

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	SR = Status register.

This option of this input message can only be used as part of a generic utilities WHEN input message clause.

d = Utility variable (0-14) that the value is to be copied into.

e = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'f' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

h = Level of indirection (0-3) for the first part of the message. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

j = Address that the value is to be copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

k = Name of a specific register where data is copied to. Valid value(s):

SM Software Configuration:	Registers:
CNFG2KPPC	CR = Condition register. CTR = Count register. GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. LR = The link register. MSR = Machine state register. PC = Program counter. SP = Stack pointer register (also known as GPR1). XER = The external interrupt mask register (integer exception).
Not CNFG2KPPC	A0-A5 = Address registers. A6 = The frame pointer (FP). A7 = The stack pointer (SP). D0-D7 = Data registers. PC = Program counter. SR = Status register.

This option of this input message can only be used as part of a generic utilities WHEN input

message clause.

l = Utility variable (0-14) that the value is to be copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this message.

m = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number 'n' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

n = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

o = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this message.

p = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2 and SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

q = Level of indirection (0-3) for the second part of the message. Default is 0.

r = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

s = Legal operator. Valid value(s):

- and = Performs logical "and" of the value in field 2 with the value of field 3.
- div = Divides the value of field 2 by the value of field 3.
- invert = Performs a logical binary inversion of the value in field 2.
- minus = Subtracts the value of field 3 from the value of field 2.
- mult = Multiplies the value of field 3 with the value of field 2.
- or = Performs logical "or" of the value in field 2 with the value of field 3.
- plus = Adds the value of field 3 to the value of field 2.
- shl = Shifts left the value in field 2 by the value of field 3.
- shr = Shifts right the value in field 2 by the value of field 3.
- xor = Performs logical "exclusive or" of the value in field 2 with the value of field 3.

t = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

u = Name of a specific register where data is copied to. Valid value(s):

SM Software Configuration:	Registers:

CNFG2KPPC	CR = Condition register. CTR = Count register. GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. LR = The link register. MSR = Machine state register. PC = Program counter. SP = Stack pointer register (also known as GPR1). XER = The external interrupt mask register (integer exception).
Not CNFG2KPPC	A0-A5 = Address registers. A6 = The frame pointer (FP). A7 = The stack pointer (SP). D0-D7 = Data registers. PC = Program counter. SR = Status register.

This option of this input message can only be used as part of a generic utilities WHEN input message clause.

v = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

w = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'x' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

x = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

y = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

z = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

a^1 = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

b^1 = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
COPY:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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COPY:UVAR

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that data be copied from an administrative module (AM) generic access package (GRASP) in utility variable to virtual addresses in main memory and in registers as an action associated with a breakpoint. Copies data from another GRASP utility variable as an immediate action or as an action triggered by a breakpoint.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied. Format 1 is a required by action to be triggered by a breakpoint. Format 2 is either executed immediately or triggered by a breakpoint.

2. FORMAT

```
[1]    COPY:UVAR=a[,OFF=b][,L=c|,NL=d]{:ADDR=e|:REG=f}[:WORD]!

[2]    COPY:UVAR=a[,L=c|,NL=d]:UVAR=g[:WORD]{!|;}
```

3. EXPLANATION OF MESSAGE

`WORD` = Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words, including addresses derived in address chains. If this option is omitted, values given are assumed to be in bytes.

`a` = A GRASP utility variable, in decimal, as the source for the copy. Utility variable values are reset to zero at the end of a debugging session.

`b` = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified. (Used as an action associated with a breakpoint.)

`c` = The length of the copy in bytes unless the WORD option is specified, in which case, the maximum is 128 bytes or 32 words. The default is 1.

`d` = The operation should use the locations beginning 'd' lower than the calculated address and ending at the address. The locations are used in ascending order.

`e` = The destination virtual address for the data in decimal, octal, or hexadecimal notation. (Used as an action associated with a breakpoint.)

`f` = The register to be written as the destination of the copy. (Used as an action associated with a breakpoint.) Valid value(s):

- `AP` = Argument pointer.
- `ATBBGR` = Register used by the ATB miss routine to temporarily store the bi-directional

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	gating register (BGR).
ATBPSW	= Register used by the ATB miss routine to temporarily store the program status word (PSW) register.
ATBQ	= Register used by the ATB miss routine to temporarily store the 'q' register.
ATBSAR	= Register address used by the address translation buffer (ATB) miss routine to temporarily store the store address register (SAR) contents.
ATBSCR	= Register used by the ATB miss routine to temporarily store the store control register (SCR) contents.
ATBSDR	= Register used by the ATB miss routine to temporarily store the store data register (SDR) content.
BGR	= Bi-directional gating register.
CAR	= Channel address register.
CDR	= Channel data register.
ERC	= Error register (ER) clear.
FP	= Frame pointer.
HG	= Reserved register.
HSR	= Hardware status register.
HSRBGC	= Bi-directional gating control bits of the hardware status register (HSR).
IM	= Interrupt mask register.
ISC	= IS (interrupt source) register clear.
ISS	= Interrupt source (IS) register set.
PA	= Program address register.
PPR	= Pulse point register.
PSW	= Program status word.
R0	= General register R0.
R1	= General register R1.
R2	= General register R2.
R3	= General register R3.
R4	= General register R4.
R5	= General register R5.
R6	= General register R6.
R7	= General register R7.
R8	= General register R8.
R9	= Argument pointer.
R10	= Frame pointer.
R11	= Stack pointer.
RNULL	= Null register.
RTC	= Real time clock.
SBR0	= Segment base register SBR0.
SBR1	= Segment base register SBR1.
SBR2	= Segment base register SBR2.
SBR3	= Segment base register SBR3.
SBR4	= Segment base register SBR4.
SBR5	= Segment base register SBR5.
SBR6	= Segment base register SBR6.
SBR7	= Segment base register SBR7.
SCRATCH0	= JE group temp subgroup scratch register SCRATCH0.
SCRATCH1	= JE group temp subgroup scratch register SCRATCH1.
SDR	= Store data register.

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SP	= Stack pointer SP.
SSRC	= System status register (SSR) clear.
SSRS	= SSR set.
SYSBASE	= Beginning address of *UNIX*® RTR Operating System tab.
T0	= JE group temp subgroup scratch register T0.
T1	= JE group temp subgroup scratch register T1.
T2	= JE group temp subgroup scratch register T2.
T3	= JE group temp subgroup scratch register T3.
T4	= JE group temp subgroup scratch register T4.
T5	= JE group temp subgroup scratch register T5.
T6	= JE group temp subgroup scratch register T6.
T7	= JE group temp subgroup scratch register T7.
TIMERS	= Timing circuit.
TOPIS	= Interrupt stack pointer.
UINT0	= Error microinterrupt hander register UINT0.
UINT1	= Error microinterrupt hander register UINT1.
UINT2	= Error microinterrupt hander register UINT2.
UINT3	= Error microinterrupt hander register UINT3.
UINTER	= Shadow error register (uint_er) loaded during an error microinterrupt.

g = A GRASP utility variable, in decimal, to be written as the destination copy. Utility variable values are reset to 0 at the end of a debugging session. (Can be used as an immediate action or associated with a breakpoint.)

4. SYSTEM RESPONSE

?I = General syntax error. May also include:
- EXTRA KEYWORD (OFF) = Indirection not allowed except as action of a WHEN.
- INCONSISTENT KEYWORDS (NL-OFF) = Negative length not allowed without OFF.
- INVALID KEYWORD = Destination of ADDR or REG not valid outside of a WHEN action list.
- RANGE ERROR (UVAR) = Invalid utility variable number was specified.
- RANGE ERROR (L or NL) = Length specified is too long.

IP = In progress. The message has been added to the WHEN action list.

NG = No good. May also include:
- BAD REG NAME = A named register is not a valid destination.

PF = Printout follows. Followed by the COPY:UVAR output message.

RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM input message.

5. REFERENCES

Input Message(s):

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```
DUMP:UVAR
LOAD:ADDR
LOAD:REG
LOAD:UVAR
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Message(s):

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
```

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21. CPY

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CPY:AMATAPE

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that primary or secondary automatic message accounting (AMA) data records be copied onto tape.

2. FORMAT

```
CPY:AMATAPE:{PRIM|SEC,SBLK=a,EBLK=b},MT=c[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`PRIM` = Write primary data.

`SEC` = Write secondary data.

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

NOTE: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

`a` = Sequence number of the first block of secondary data required. This variable is used only if secondary data is being written onto tape. For secondary data, it is not possible to transmit the oldest 51 blocks of secondary data. Therefore, this number may not reflect the actual first block of secondary data transmitted in the case where the first block falls in that range. To determine the oldest secondary block of data, use OP:AMA-MAPS and determine the FSS from the right side of the maps for the WRITE PARTITION listed at the top of the OP:AMA-MAPS output. This block plus the 50 blocks following cannot be accessed. This is necessary since the oldest secondary AMA data could be overwritten by primary AMA data while a secondary session is in progress.

`b` = Sequence number of the last block of secondary data required. This variable is used only if secondary data is being written onto tape.

`c` = Tape drive number.

4. SYSTEM RESPONSE

`IP` = In progress. Tape writing is allowed and the message was successfully sent to start the tape writing session. When tape writing is completed either a REPT:AMATAPE-ERR message or a REPT:AMATAPE-COMP message will be output indicating the outcome of the request.

`NG` = No good. The teleprocessing option is in effect, a tape session is already in progress, or data transfer sessions have been manually inhibited, or data stream checks have failed.

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PF = Printout follows. Invalid internal data was encountered while processing the input message. An audit printout will follow.

RL = Retry later. A message could not be sent to start the tape writing process.

5. REFERENCES

Input Message(s):

```
ABT:AMATAPE
ALW:AMA-SESSION
INH:AMA-SESSION
OP:AMA-STREAM
STP:AMATAPE
OP:AMA-CONTROLF
OP:AMA-MAPS
```

Output Message(s):

```
REPT:AMATAPE-COMP
REPT:AMATAPE-ERR
REPT:AMA-DISK-MAP
```

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22. DEL

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DEL:ACSR

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that one or all automatic customer station rearrangement (ACSR) requests be deleted from the ACSR queue.

2. FORMAT

```
DEL:ACSR,{PDN=a|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Delete all requests from the ACSR queue.

`a` = Primary directory number (PDN). The PDN value may be a 7 or 10 digit directory number (DN). If the NXX exists in more than one area code (i.e., NPA), a 10 digit DN must be entered.

4. SYSTEM RESPONSE

`PF` = Printout follows. The DEL:ACSR output message follows.

5. REFERENCES

Input Message(s):

```
OP:ACSR
```

Output Message(s):

```
DEL:ACSR
OP:ACSR
```

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DEL:FACR

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that a scheduled feature activation counting and reconciliation (FACR) entry be removed.

2. FORMAT

```
DEL:FACR:ID=a;
```

3. EXPLANATION OF MESSAGE

`a` = Request ID of the scheduled FACR entry to be removed. ID may be obtained by executing the OP:FACR input message.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DEL:FACR output message.

5. REFERENCES

Input Message(s):

```
OP:FACR
SCHED:FACR
```

Output Message(s):

```
DEL:FACR
OP:FACR
SCHED:FACR
```

Other Manual(s):
235-040-100 *OA&M Planning Guide*
235-100-125 *System Description*

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DEL:LOG

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests deletion of selected contents of a logfile and cleans out corrupt entries from the file. If the filename is the only criterion entered, only corrupt entries are deleted. Otherwise, only entries in the logfile that meet all the specified criteria are deleted.

Two formats are given, depending on the form of specifying starting and ending dates and times.

2. FORMAT

```
[1]    DEL:LOG:LG="a"[:[DATE=b[&&c],][KW="f",][ID=g,][TYPE=h]];
       ____________________________________________________________

[2]    DEL:LOG:LG="a"[:[DATE=i[&&j],][TIME=d[&&e],][KW="f",][ID=g,]. . .
       . . .[TYPE=h]];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Name of the logfile. Any valid administrative module (AM) logfile name. For example: ULARP, DAYLOG.

`b` = Start date as a six-digit format (mmddyy) or ten-digit format (mmddyyhhmm). For example, 100257 means "October 2, 1957"; 0102571000 means "January 2, 1957, at 10:00 a.m."

`c` = End date as six-digit format (mmddyy) or ten-digit format (mmddyyhhmm). The default is the start date. If supplied, this date must be in the same format (six or ten digits) as the start date.

`d` = Start time in hours and minutes format (hhmm). For example, 0110 means "1:10 a.m."

`e` = End time in hours and minutes format (hhmm). For example, 1530 means "3:30 p.m." The default is the start time.

When the six-digit date range is used in conjunction with a time range, the log entries will be deleted from start time to end time for each day in the range of start date through end date.

The ten-digit date allows the user to delete log entries from the start time on the start date until the end time on the end date. Specifying the start time (variable '`d`') and end time (variable '`e`') with the ten-digit date range is invalid.

`f` = A keyword that appears in all entries that are to be deleted.

`g` = An optional four-digit decimal number that is used to link an item in a logfile with an entry in another file. The ID is filled in by the process that made the logfile entry: for example, 1234, 0017, 0003.

`h` = An optional four-digit decimal number that specifies the type of entry on a logfile. This type is

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filled in by the process that made the logfile entry; for example, 1234, 0945, 0005.

`i` = Start date, given as a six-digit number in the form mmddyy.

`j` = End date, given as a six-digit number in the form mmddyy. Default is the start date.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. May also include:
- `CANNOT ATTACH TO ECD` = Could not attach to the equipment configuration database (EDC).

5. REFERENCES

Input Message(s):

```
OP:LOG
```

Output Message(s):

```
DEL:LOG
OP:LOG
```

Other Manual(s):
235-105-250 *System Recovery Procedures*
235-600-400 *Audits*
235-105-210 *Routine Operations and Maintenance*

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DEL:PAUTH

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Deletes a person identity (IDENT) from the person authority database (PAUTH).

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
DEL:PAUTH:IDENT="a";
```

3. EXPLANATION OF MESSAGE

`a` = Identity of person authority to delete from the person authority database, in one to eight letters and/or digits.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `NON-EXISTENT PERSON IDENTITY` = The given person identity does not exist in the person authority database.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The person authority database is inaccessible.

`OK` = Good. Identity deleted from person authority database.

`RL` = Retry later. Valid value(s):
- `AUTHORITY ADMINISTRATION UNDER UPDATE` = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):

```
ADD:PAUTH
CHG:PAUTH
VFY:PAUTH
```

Output Message(s):

```
VFY:PAUTH
```

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Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

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DEL:PCGRP

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

This input message deletes a command group or profile from the person-command group (PCGRP) relation for a given person identity (IDENT).

Format 1 disassociates a command group (COMGR) from a person identity (IDENT), preventing the user from accessing this group of commands. Format 2 disassociates a command profile (PROFL) from a person identity, preventing the user from accessing this command profile. This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
[1]    DEL:PCGRP:IDENT=a,COMGR=b;

[2]    DEL:PCGRP:IDENT=a,PROFL=c;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the person in one to eight letters and/or digits.

`b` Command group. Valid value(s):

`ADMIN`	= System administrator only activities.
`ALARM`	= Alarm manipulation.
`AM`	= Administrative module maintenance.
`AMA`	= Automatic message accounting.
`AUDIT`	= Audits.
`AUTH`	= Command and authority administration.
`CCS`	= Common channel signaling.
`CM`	= Communications module maintenance.
`FHADM`	= File handling and administration.
`MAINT`	= Routine maintenance activities.
`MEAS`	= Measurements.
`NMOC`	= Network management and overload control.
`ODD`	= Office dependent data activities.
`PASS`	= Personal password modification.
`RCV`	= Recent change and verify activities.
`SM`	= Switching module maintenance.
`SPECRCV`	= Special RC/V input messages.
`SFTMGT`	= Software management (update, software release retrofit).
`SFTUTIL`	= Software utilities.
`SUPERUSR`	= Super user authority (bypass terminal authority).
`SYSRCVY`	= System recovery activities.
`TRACE`	= Call trace.
`TRKLN`	= Trunk and line maintenance.

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Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

`c` = A profile name which has been previously created using ADD:PROFL and assigned to this user with ADD:PCGRP. The name is one to eight letters and/or digits.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `COMMAND GROUP NOT ASSIGNED TO THIS PERSON` = The given command group was never assigned to this person identity.
- `NON-EXISTENT PERSON IDENTITY` = The given person identity does not exist in the person authority database.
- `PROFILE IDENTITY DOES NOT EXIST` = The command profile does not exist in the profile authority database.
- `PROFILE NOT ASSIGNED` = The given command profile was never assigned to this person identity.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The person authority database is inaccessible.

`OK` = Good. The command group or profile is no longer associated with the person identity.

`RL` = Retry later. May also include:
- `AUTHORITY ADMINISTRATION UNDER UPDATE` = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):

```
ADD:PAUTH
ADD:PROFL
ADD:PCGRP
CHG:PROFL
DEL:PAUTH
DEL:PCGRP
DEL:PROFL
VFY:PAUTH
VFY:PCGRP
VFY:PROFL
```

Output Message(s):

```
VFY:PAUTH
VFY:PCGRP
VFY:PROFL
```

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Input Appendix(es):

```
APP:COMMAND-GRP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

DEL:PROFL

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Deletes a profile identity (IDENT) from the profile authority database (PROFL). A profile is a set of command groups, which are detailed in the APP:COMMAND-GRP appendix of the Input Messages manual. The profile is also deleted from any person authority (PAUTH) to which it is assigned.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
DEL:PROFL:IDENT=a;
```

3. EXPLANATION OF MESSAGE

`a` = Identifying name of the profile to be deleted from the database. A maximum of eight characters may be used.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `PROFILE IDENTITY DOES NOT EXIST` = The given profile identity does not exist in the profile authority database.
- `UNABLE TO ACCESS PROFILE ADMINISTRATION` = The profile authority database is inaccessible.

`OK` = Good. The profile is successfully deleted from the profile authority database.

`RL` = Retry later. May also include:
- `AUTHORITY ADMINISTRATION UNDER UPDATE` = The person authority database (PAUTH) is currently being updated.
- `PROFILE ADMINISTRATION UNDER UPDATE` = The profile authority database (PROFL) is currently being updated.

5. REFERENCES

Input Message(s):

```
ADD:PCGRP
ADD:PROFL
CHG:PROFL
DEL:PCGRP
VFY:PCGRP
```

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```
VFY:PROFL
```

Output Message(s):

```
VFY:PCGRP
VFY:PROFL
```

Input Appendix(es):

```
APP:COMMAND-GRP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

DEL:TAUTH

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Deletes a terminal identity (TERM) from the terminal authority (TAUTH) database.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
DEL:TAUTH:TERM=a;
```

3. EXPLANATION OF MESSAGE

`a` = Terminal identity in four characters, starting with "tty".

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID TERMINAL IDENTITY` = The given terminal identity is either not four characters in length or does not start with "tty".
- `NON-EXISTENT TERMINAL IDENTITY` = The given terminal identity does not exist in the terminal authority database.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The terminal authority database is inaccessible.

`OK` = Good. The terminal identity is deleted from the terminal authority database.

`RL` = Retry later. May also include:
- `AUTHORITY ADMINISTRATION UNDER UPDATE` = The terminal authority database is currently being updated.

5. REFERENCES

Input Message(s):

```
ADD:TAUTH
VFY:TAUTH
```

Output Message(s):

```
VFY:TAUTH
```

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Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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DEL:TCGRP

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

This command deletes a command group of profile from the terminal-command group (TCGRP) relation for a given terminal (TERM) identity.

Format 1 disassociates a command group (COMGR) from a TERM, preventing the user from accessing this group of commands from that terminal. Format 2 disassociates a command profile (PROFL) from a TERM, preventing the user from accessing this command profile from that terminal. This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
[1]    DEL:TCGRP:TERM=a,COMGR=b;

[2]    DEL:TCGRP:TERM=a,PROFL=c;
```

3. EXPLANATION OF MESSAGE

`a` = Terminal identity in four characters, starting with "tty".

`b` = Command group. Valid value(s):

`ADMIN`	= System administrator only activities.
`ALARM`	= Alarm manipulation.
`AM`	= Administrative module maintenance.
`AMA`	= Automatic Message Accounting.
`AUDIT`	= Audits.
`AUTH`	= Command and authority administration.
`CCS`	= Common channel signaling.
`CM`	= Communications module maintenance.
`FHADM`	= File handling and administration.
`MAINT`	= Routine maintenance activities.
`MEAS`	= Measurements.
`NMOC`	= Network management and overload control.
`ODD`	= Office Dependent Data activities.
`PASS`	= Personal password modification.
`RCV`	= Recent Change and Verify activities.
`SM`	= Switching module maintenance.
`SPECRCV`	= Special RCV commands.
`SFTMGT`	= Software management (update, software release retrofit).
`SFTUTIL`	= Software utilities.
`SUPERUSR`	= Super user authority (bypass terminal authority).
`SYSRCVY`	= System recovery activities.
`TRACE`	= Call trace.
`TRKLN`	= Trunk and line maintenance.

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Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

4. SYSTEM RESPONSE

NG = No good. May also include:
- COMMAND GROUP NOT ASSIGNED TO THIS TERMINAL = The given command group was never assigned to this terminal identity.
- INVALID TERMINAL IDENTITY = The given terminal identity is either not four characters in length or does not start with tty.
- TERMINAL IDENTITY DOES NOT EXIST = The given terminal identity does not exist in the terminal authority administration.
- PROFILE NOT ASSIGNED = The given command profile was never assigned to this terminal identity.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The terminal authority database is inaccessible.

OK = Good. The command group or profile is no longer associated with the terminal identity.

RL = Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The terminal authority database is currently being updated.

5. REFERENCES

Input Message(s):

```
ADD:PROFL
ADD:TAUTH
ADD:TCGRP
CHG:PROFL
DEL:PROFL
DEL:TAUTH
DEL:TCGRP
VFY:PROFL
VFY:TAUTH
VFY:TCGRP
```

Output Message(s):

```
VFY:PROFL
VFY:TAUTH
VFY:TCGRP
```

Input Appendix(es):

```
APP:COMMAND-GRP
```

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Other Manual(s):
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23. DGN

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DGN:AIUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an access interface unit common data and control controller (COMDAC).

2. FORMAT

```
DGN:AIUCOM=a-b-c[,PH=d[&&e]][,RPT[=f]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of the phase to be run, or the lower limit of a range of phases.

`e` = The upper limit of a range of phases to be run.

`f` = The number of times the exercise is to be repeated (1-32676). If '`f`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the DGN:AIUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
OP:DMQ-CM-SM
```

Output Message(s):

```
DGN:AIUCOM
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1320,y,x (AIU SUMMARY)

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DGN:AIULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an access interface unit (AIU) line circuit (LC).

2. FORMAT

```
DGN:AIULC=a-b-c-d[,PH=e[&&f]][,RPT[=g]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of the phase to be run, or the lower limit of a range of phases.

`f` = The upper limit of a range of phases to be run.

`g` = The number of times the exercise is to be repeated (1-32676). If '`f`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the DGN:AIULC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
OP:DMQ-CM-SM
```

Output Message(s):

```
DGN:AIULC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1323,y,z,x (AIU AP STATUS)

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DGN:AIULP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an access interface unit (AIU) line pack (LP).

2. FORMAT

```
DGN:AIULP=a-b-c[,PH=d[&&e]][,RPT[=f]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of the phase to be run, or the lower limit of a range of phases.

`e` = The upper limit of a range of phases to be run.

`f` = The number of times the exercise is to be repeated (1-32676). If '`f`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the DGN:AIULP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
OP:DMQ-CM-SM
```

Output Message(s):

```
DGN:AIULP
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1320,y,x (AIU SUMMARY)
1323,y,z,x (AIU AP STATUS)

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DGN:AIURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an access interface unit (AIU) ring generator (RG).

2. FORMAT

```
DGN:AIURG=a-b-c[,PH=d[&&e]][,RPT[=f]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of the phase to be run, or the lower limit of a range of phases.

`e` = The upper limit of a range of phases to be run.

`f` = The number of times the exercise is to be repeated (1-32676). If '`f`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the DGN:AIURG output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
OP:DMQ-CM-SM
```

Output Message(s):

```
DGN:AIURG
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1320,y,x (AIU SUMMARY)
1322,y,x (AIU RG STATUS)

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DGN:AIUTSGRP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an access interface unit (AIU) timeslot group (TSGRP).

2. FORMAT

```
DGN:AIUTSGRP=a-b-c-d[,PH=e[&&f]][,RPT[=g]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = AIU number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`c` = Common data and control circuit (COMDAC) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`d` = Peripheral interface data bus (PIDB) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`e` = The number of the phase to be run, or the lower limit of a range of phases.

`f` = The upper limit of a range of phases to be run.

`g` = The number of times the exercise is to be repeated (1-32676). If '`f`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the DGN:AIUTSGRP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
OP:DMQ-CM-SM
```

Output Message(s):

```
DGN:AIUTSGRP
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1321,y,x (AIU PIDB SUMMARY)

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DGN:ALIT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an automatic line insulation test (ALIT) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:ALIT=a-b-c-d[,RAW][,UCL][,GROW][,RPT[=e]][,PH=f[&&g][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Metallic service unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.

`g` = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:ALIT output message.

5. REFERENCES

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Output Message(s):

```
DGN:ALIT
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:ASC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a multimodule remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be diagnosed to determine if it is in working order.

2. FORMAT

```
DGN:ASC=a[,RAW][,UCL][,RPT[b]][,GROW][,PH=c[&&d][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw data from test failure.

`TLP` = Print the ordered pack list if diagnostic fails.

`UCL` = Execute the diagnostic(s) unconditionally.

`a` = Switching module (SM) number.

`b` = Number of times the test will be repeated. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Default=32,767.

`c` = Diagnostic phase(s) to be performed, or the lower limit of a range of diagnostic phases.

`d` = Upper limit of a range of diagnostic phases.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.
`PF` = Printout follows. Followed by the ABT:ASC output message.
Note: Observe the following at the remote site:

AUDIBLE	VISUAL	TIME
CRITICAL	CRITICAL + TIP	5 sec
CRITICAL	STAND-ALONE + TIP	5 sec
MAJOR	MAJOR + TIP	5 sec
MINOR	MINOR + TIP	5 sec
TIP = test in progress.		

5. REFERENCES

Output Message(s):

```
ABT:HDFI
```

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```
DGN:ASC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DGN:BTSR

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the bootstrapper board (BTSR) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:BTSR=a[,RAW][,UCL][,RPT[=b]][,GROW][,PH=c[&&d]][,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute the removal.

`a` = Switching module number.

`b` = The number of times that the test is to be repeated. If '`b`' is not specified, the test will be repeated 32,767 times.

`c` = If specified as a single argument, the diagnostic phase to be performed. If specified as a range, the first diagnostic phase of the range of phases to be performed.

`d` = The last diagnostic phase of the range of phases starting with '`e`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:BTSR output message.

5. REFERENCES

Output Message(s):

`DGN:BTSR`

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DGN:CDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit to determine if it is in working order. If the circuit is in service, it is removed from service and diagnosed. The circuit is left out of service at the end of the diagnostic regardless of the result.

2. FORMAT

```
DGN:CDFI=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f][,TPL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw data from test failure.

`TLP` = Print the ordered pack list if a diagnostic fails.

`UCL` = Unconditionally execute and print all test failures. Diagnostic will continue past all non-fatal errors.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Repeat (RPT) the test '`d`' times. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Run phase '`e`'.

`f` = Run phases '`e`' through '`f`'.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

```
-       NOT STARTED UNIT IN GROWTH STATE
-       SM DOES NOT EXIST
-       SM UNEQUIPPED
-       UNIT DOES NOT EXIST
```

`PF` = Printout follows. The DGN:CDFI output message follows.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST:CDFI

Output Message(s):

DGN:CDFI

Input Appendix(es):

APP:RANGES

DGN:CDI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a control data interface (CDI) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:CDI=a-b-c[,RAW][,UCL][,SVG][,RPT[=d]][,GROW][,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`SVG` = Run diagnostics on the entire service group, including the demand phases.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Diagnostic phase(s) to be performed. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified in a range, '`e`' will be the first phase in that range to be performed.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:CDI output message.

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5. REFERENCES

Output Message(s):

DGN:CDI

Input Appendix(es):

APP:RANGES

DGN:CMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnosis of a communication module processor (CMP) to determine whether it is in satisfactory working order. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Note 1: If the unit is not OOS, the system will first remove the unit conditionally.

Note 2: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

```
DGN:CMP=a-b[,RAW][,GROW][,UCL][,RPT[=c]][,TLP][,PH=d[&&e]];
```

3. EXPLANATION OF MESSAGE

`GROW` = Run diagnostics on a CMP in the GROW state. If the CMP is GROW, this option must be input to perform the diagnostic.

`RAW` = Print data from raw data test failure.

`RPT` = Repeat the diagnostic '`c`' times.

`TLP` = Print the ordered pack list.

`UCL` = Execute tests unconditionally and print test failures rather than stopping after the first test failure.

`a` = Message switch side number.

`b` = CMP number.

`c` = Number of times the diagnostic is to be repeated (default 32,767). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Phase (PH) number or lower limit of a range of phase numbers.

`e` = Upper limit of a range of phase numbers.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

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`PF` = Printout follows. The DGN:CMP output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:CMP
OP:DMQ-CM-SM
STP:CMP
```

Output Message(s):

```
DGN:CMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*
235-700-300 *Peripheral Diagnostic Language Reference*

MCC Display Page(s):

1241/51 (MSGS COMMUNITIES 0-1, 8-9)

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DGN:CU

Software Release: 5E15 and later
Command Group: AM,CCS
Application: 3B,CNI
Type: Input

1. PURPOSE

Diagnoses the specified administrative module (AM) control unit (CU) complex or a specified unit within the CU complex.

Format 1 diagnoses the specified CU complex. Format 2 diagnoses the central control (CC) unit. Format 3 diagnoses the specified channel (CH). Format 4 diagnoses the cache store unit (CSU). Format 5 diagnoses the specified direct memory access (DMA) unit. Format 6 diagnoses the specified main store controller unit (MASC). Format 7 diagnoses the store address translator (SAT) circuit pack. Format 8 diagnoses the utility circuit (UC) circuit pack.

2. FORMAT

```
[1]    DGN:CU=a[:[,RAW][,UCL][,REX|,DEX]][,TLP];

[2]    DGN:CU=a,CC=0[:[,RPT=c][,RAW][,UCL][,REX|,DEX]][[,PH=d[&&e]]
       [,TLP];

[3]    DGN:CU=a,CH=b[:[,RPT=c][,RAW][,UCL][,REX|,DEX]][,PH=d[&&e]]
       [,TLP][,{DFC=f|IOP=f|RPCN32=g|RPCN00=g|LN32=g|LN00=g}];

[4]    DGN:CU=a,CSU=0[:[,RPT=c][,RAW][,UCL][,REX|,DEX]][,PH=d[&&e]]
       [,TLP];

[5]    DGN:CU=a,DMA=b[:[,RPT=c][,RAW][,UCL][,REX|,DEX]][,PH=d[&&e]]
       [,CONT][,TLP];

[6]    DGN:CU=a,MASC=b[:[,RPT=c][,RAW][,UCL][,REX|,DEX]][,PH=d[&&e]]
       [,TLP];

[7]    DGN:CU=a,SAT=0[:[,RPT=c][,RAW][,UCL][,REX|,DEX]][,PH=d[&&e]]
       [,TLP];

[8]    DGN:CU=a,UC=0[:[RPT=c][,RAW][,UCL][,REX|,DEX]][,PH=d[&&e]]
       [,TLP];
```

3. EXPLANATION OF MESSAGE

`CONT` = Include only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored. Format 5 is currently used by the DMA. If this parameter is not specified, the DMA controller and all channels connected to it are diagnosed.

`DEX` = Run demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require user interaction to be run even if the range of phases specified includes such a phase.

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`RAW` = Print the diagnostic results of every phase. Default equals the first five failures of each failing phase.

`REX` = Run routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is recommended that the TLP and UCL parameters not be specified together, as it may produce an improper TLP listing.

`UCL` = Unconditional execution.

NOTE: This option does not override forced early terminations.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

`c` = Number of times diagnostic is repeated (maximum is 256) (default is 1).

NOTE: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`d` = The number of the first phase to be executed.

`e` = The number of the last phase to be executed.

`f` = Member number of the DFC or IOP that is to be used as a helper unit. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped.

`g` = Member number of the link node (LN) or ring peripheral control node (RPCN) to be used as a helper unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. 0 is used for the RPCN.

4. SYSTEM RESPONSE

`?D` = General syntax error in the data field, followed by the parameter position. Valid value(s):
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INCONSISTENT KEYWORD` = The combination of keywords is not a valid combination.
- `INVALID DATA` = Not a valid value for the phase option.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.

`?E` = Input error of undetermined type.

`?I` = General syntax error, followed by the parameter position. May also include:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.

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- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- MISSING DATA = Data required for a keyword in the stated parameter block was not found.
- MISSING KEYWORD = A required keyword is missing from the input. Unit to diagnose must be specified.
- RANGE ERROR = Input is out of the valid range.

PF = Printout follows. Followed by the DGN:CU output message.

RL = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:CU
RST:CU
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:CU
OP:DMQ-CM
OP:DMQ-SM
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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DGN:DCI

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified dual serial channel/computer interconnect (DCI).

2. FORMAT

```
DGN:DCI=a[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][:DATA[,PH=c[&&d]][,TLP]];
```

3. EXPLANATION OF MESSAGE

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: The `TLP` and `UCL` parameters should not be used together, as additional test results may adversely affect the `TLP` listing.

`UCL` = Unconditional execution.

NOTE: This option does not override forced early terminations.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times diagnostic is repeated. The maximum is 256. The default is one.

NOTE: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = The number of the first phase to be executed.

`d` = The number of the last phase to be executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:DCI output message.

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`RL` = Retry later. The system is in an overload condition.

`?I` = General syntax error, followed by the parameter position and one of the following reasons:
`EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
`INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
`MISSING DATA` = Data required for a keyword in the stated parameter block was not found.
`MISSING KEYWORD` = A required keyword is missing from the input. Unit to diagnose must be specified.
`RANGE ERROR` = Input is out of the valid range.

`?D` = General syntax error in the data field, followed by the parameter position and one of the following reasons:
`EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
`INCONSISTENT KEYWORD` = The combination of keywords is not a valid combination.
`INVALID DATA` = Not a valid value for the phase option.
`INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.

`?E` = Input error of undetermined type.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:DCI
RST:DCI
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:DCI
OP:DMQ
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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DGN:DCLU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a *SLC®* 96 digital carrier line unit (DCLU) be removed and diagnosed. The circuit will remain out of service (regardless of the diagnostic's result) until a restore (RST) is requested.

The DCLU service groups interface with *SLC®* 96 digital facility interface (SDFI) circuits. There are 4 classes of faults associated with DCLU and SDFI circuits and they are written in the order in which they are most likely to occur:

A DCLU faults that are detected with DCLU diagnosis.

B DCLU faults that are only detected by diagnosing an SDFI circuit (any SDFI).

C SDFI faults that are only detected by diagnosis of the DCLU.

D DCLU faults that are only detected by diagnosing a particular SDFI.

In addition, fault recovery is unable to determine if detected problems are associated with bad DCLU or SDFI circuits. Therefore, fault recovery uses an algorithm in determining which circuits (DCLU or SDFI) to diagnose.

2. FORMAT

```
DGN:DCLU=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Prints raw test results [all tests passed (ATP)/some tests failed (STF)] for each phase executed.

`TLP` = Print the ordered suspect pack if a test fails.

`UCL` = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

`a` = Switching module (SM) number.

`b` = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

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`e` = Diagnostic phase to be performed. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified in a range, '`e`' will be the first phase in that range to be performed.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. The DGN:DCLU output message follows when the diagnostic is executed.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
EX:DCLU
RMV:DCLU
RST:DCLU
STP:DCLU
```

Output Message(s):

```
DGN:DCLU
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:DCTUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a directly connected unit common board (DCTUCOM) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:DCTUCOM=a-b[,RAW][,UCL][,SVG][,RPT[=c]][,GROW][,PH=d[&&e][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`SVG` = Run diagnostics on the entire service group, including the demand plases.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of times the test is to be repeated. If '`c`' is not specified, the test will be repeated 32,767 times.

`d` = Diagnostic phase(s) to be performed. If '`d`' is specified as a single phase, only that phase will be performed. If '`d`' is specified as a range, '`d`' will be the first phase in that range to be performed.

`e` = The last diagnostic phase in the range between and including '`d`' and '`e`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:DCTUCOM output message.

5. REFERENCES

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Output Message(s):

```
DGN:DCTUCOM
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:DCTUPORT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a directly connected test unit port circuit (DCTUPORT) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:DCTUPORT=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.

`f` = The upper limit of a range of diagnostic phases.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:DCTUPORT output message.

5. REFERENCES

Output Message(s):

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```
DGN:DCTUPORT
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:DFC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified disk file controller (DFC) be diagnosed.

NOTE: The moving head disk (MHD) cannot be diagnosed if the disk file controller (DFC) is not in service. Therefore, a controller and its associated disk units cannot be diagnosed with one input message.

2. FORMAT

```
DGN:DFC=a[:[RPT=b][,RAW][,UCL][,REX|,DEX]][[,PH=c[&&d]][,CONT]
[,TLP][,CU=e]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. Default is diagnose DFC variable '`a`' only.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: The TLP and UCL parameters should not be used together, as additional test results may adversely affect the TLP listing.

`UCL` = Unconditional execution.

NOTE: This option does not override forced early terminations.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times diagnostic is repeated. The maximum is 256. The default is one.

NOTE: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = The number of the first phase to be executed.

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d = The number of the last phase to be executed.

e = Member number of the CU helper unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

NOTE: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

?D = General syntax error in the data field, followed by the parameter position. Valid value(s):
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INVALID DATA = Not a valid value for the phase option.
- INCONSISTENT KEYWORD = The combination of keywords is not a valid combination.

?E = Input error of undetermined type.

?I = General syntax error, followed by the parameter position. May also include:
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- MISSING DATA = Data required for a keyword in the stated parameter block was not found.
- RANGE ERROR = Input is out of the valid range.
- MISSING KEYWORD = A required keyword is missing from the input. Unit to diagnose must be specified.

PF = Printout follows. Followed by the DGN:DFC output message.

RL = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:DFC
RST:DFC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:DFC
```

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Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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DGN:DFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital facility interface (DFI) circuit be removed and diagnosed. This circuit will remain out-of-service (OOS) and the ports will be denied service (regardless of the diagnostic's result), until a restore (RST) is requested.

2. FORMAT

```
DGN:DFI=a-b-c [,RAW][,UCL][,RPT[=d]][,GROW] [,PH=e[&&f]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` Allow access to growth equipment.

`RAW` = Prints raw test results (all tests pass (ATP)/some tests failed (STF)) for each phase executed.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Diagnostic phase to be performed. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified in a range, '`e`' will be the first phase in that range to be performed. The DFI diagnostic has 10 phases associated with the ANN1 type circuit and 9 phases associated with the ANN3 type circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

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PF = Printout follows. The request was accepted. The DGN:DFI output message follows when the diagnostic is executed.

5. REFERENCES

Input Message(s):

```
EX:DFI
RST:DFI
STP:DFI
```

Output Message(s):

```
DGN:DFI
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:DFIH

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) to determine whether it is in satisfactory working order. If the circuit is in service, it is conditionally removed from service and diagnosed. The circuit is left out of service at the end of the diagnostic regardless of the result.

2. FORMAT

```
DGN:DFIH=a-b-c[,CAMP=d][,PH=e[&&f]][,RPT[=g]] [,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = RISLU digital line and trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Allow a maximum of '`d`' minutes for camp on (CAMP) time. If CAMP is not specified, camp on defaults to 3 minutes. Maximum time allowed is 20 minutes.

`e` = Perform diagnostics phase (PH) '`e`' only.

`f` = Perform all diagnostics phases between and including '`e`' and '`f`'.

`g` = Repeat the test (RPT) '`g`' times. If '`g`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
-           CONFLICT WITH UNIT STATE
-           SM DOES NOT EXIST
-           SM UNEQUIPPED
-           UNIT DOES NOT EXIST
```

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PF = Printout follows. The DGN:DFIH output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

EX:DFIH

Output Message(s):

DGN:DFIH

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(RISLU DLTU)

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DGN:DFTAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the distributing frame test access circuit (DFTAC) be diagnosed to determine whether it is in satisfactory working order. The circuit is left out of service when the testing is completed.

2. FORMAT

```
DGN:DFTAC=a-b-c-d[,RAW][,UCL][,GROW][,RPT[=e]][,PH=[f&&g][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the trouble locating procedure ordered pack list.

`UCL` = Perform all phases in the specified or implied range and print all test failures.

`a` = Switching module number.

`b` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Repeat the test '`e`' times. If '`e`' is not specified, the test will be repeated 32,767 times. If RPT is not specified, it runs once.

`f` = Perform diagnostic phase '`f`' only.

`f-g` = Perform all existing diagnostic phases between and including '`f`' and '`g`'.

4. SYSTEM RESPONSE

`NG` = No good. Invalid SM number, MSU number, or service group number.

`PF` = Printout follows. The request was accepted. Followed by the DGN:DFTAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources (that is, SM is not linked).

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5. REFERENCES

Input Message(s):

RST:DFTAC

Output Message(s):

DGN:DFTAC

Input Appendix(es):

APP:RANGES

DGN:DIST

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a distribute point board (DIST) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:DIST=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=[f&&g][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = Metallic service unit (MSU) number.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Distribute point board number.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified in a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:DIST output message.

5. REFERENCES

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Output Message(s):

```
DGN:DIST
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:DLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a specific dual link interface (DLI) or a range of DLIs in a switching module (SM) on a specified side of the office network and timing complex (ONTC), and determines if in satisfactory working order.

2. FORMAT

```
DGN:DLI={a|a&&b}-c[,RAW][,UCL][,RPT[=d]][,PH={e|e&&f}][,TLP][,GROW];
```

3. EXPLANATION OF MESSAGE

`GROW` = If an SM is in the GROW or special grow (SGROW) equipage state this option must be input for a diagnostic to execute on the DLI.

`RAW` = Print data from raw data test failure.

`TLP` = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty circuit packs.

`UCL` = Unconditionally execute and print all test results rather than stopping on the first failure.

`a` = Switching module (SM) number that the DLI to be diagnosed is in. This can also be the lower limit for a range of DLIs that are to be diagnosed. (The DLI number and the SM number are identical.)

`b` = Upper limit of a range of DLIs to be diagnosed. All DLIs in the range must be on the same side of the ONTC.

NOTE: Unequipped SMs will be 'ignored' on a manual request for a range of DLIs. SMs that are in a special grow state will only be included in a range if the GROW option is also used.

`c` = ONTC side that the DLI is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Name of the diagnostic phase to be executed. If '`e`' is specified as a single phase, only that phase will be executed. If '`f`' is specified as a range it will be the first phase in that range to be executed.

`f` = The last phase of the diagnostic in the range between '`e`' and including '`f`' to be executed.

4. SYSTEM RESPONSE

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NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
ABT:DLI
OP:DMQ
RMV:DLI
RST:DLI
STP:DLI
```

Output Message(s):

```
DGN:DLI
OP:DMQ-CM
RST:DLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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DGN:DNUSCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

2. FORMAT

```
DGN:DNUSCC=a-b-c[,PH=d[&&e]][,RPT[=f]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list if a test fails.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of the phase to be run, or the lower limit of a range of phases.

`e` = The upper limit of a range of phases to be run.

`f` = The number of times the diagnostic phases are to be repeated (1-32676). If '`f`' is not specified, the phases will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The DGN:DNUSCC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
OP:DMQ
RST:DNUSCC
STP:DNUSCC
```

Output Message(s):

```
DGN:DNUSCC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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DGN:DNUSCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

2. FORMAT

```
DGN:DNUSCD=a-b-c-d[,PH=e[&&f]][,RPT[=g]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list if a test fails.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of the phase to be run, or the lower limit of a range of phases.

`f` = The upper limit of a range of phases to be run.

`g` = The number of times the diagnostic phases are to be repeated (1-32676). If '`g`' is not specified, the phases are repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The DGN:DNUSCD output message follows.

`RL` Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
OP:DMQ
RST:DNUSCD
STP:DNUSCD
```

Output Message(s):

```
DGN:DNUSCD
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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DGN:DSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital service circuit (DSC) be removed and diagnosed. This circuit will remain out-of-service (OOS), regardless of the diagnostic's result, until a restore (RST) is requested.

A DSC circuit is defined as a universal tone generator (UTG), universal tone detector (UTD), universal conference circuit (UCONF), or transmission test facility common circuit (TTFCOM) circuit. These circuits are part of local digital service units (LDSU) or global digital service units (GDSU). The LDSU contains the UTG and UTD circuits while the GDSU contains the UCONF and TTFCOM circuits. To obtain a cross reference between the DSC number and the actual circuit, refer to the desired MCC page under LDSU or GDSU.

2. FORMAT

```
DGN:DSC=a-b-c-d[,RAW][,UCL][,TLP][,RPT[=e]][,GROW][,PH=f[&&g];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test results (all tests passed (ATP)/some tests failed (STF)) for each phase executed.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

`a` = Switching module (SM) number.

`b` = Local or global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times that the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

NOTE: The UTD diagnostic has 5 phases (1-5). UTG has 3 phases (1-3), UCONF has 5 phases (1-5), and TTFCOM has 13 phases (1-4, 7-15).

`f` = Diagnostic phase to be performed, or the lower limit of a range of phases.

`g` = Upper limit of a range of diagnostic phases to be performed.

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4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. The DGN:DSC output message follows when the diagnostic is executed.

5. REFERENCES

Input Message(s):

RMV:DSC
RST:DSC

Output Message(s):

DGN:TTFCOM
DGN:UCONF
DGN:UTD
DGN:UTG

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1080 (LDSU)
110y (GDSU)

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DGN:DUIC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified direct user interface controller (DUIC).

NOTE: The input/output processor (IOP) must be in service before the DUIC can be diagnosed.

2. FORMAT

```
DGN:DUIC=a[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][,PH=c[&&d]][,TLP][,CONT];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: The TLP and UCL parameters should not be used together, as additional test results may adversely affect the TLP listing.

`UCL` = Unconditional execution.
Note: This option does not override a forced early termination.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is repeated. The maximum is 256. The default is one.
Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Number of the phase to be executed, or the first number in a range of phases.

`d` = Specifies the last phase to be executed.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:DUIC output message.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:DUIC
RST:DUIC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:DUIC
OP:DMQ
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:EAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an equipment access network (EAN) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:EAN=a-b[,RAW][,UCL][,RPT[=c]][,GROW][,PH=d[&&e][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of times the test is to be repeated. If '`c`' is not specified, the test will be repeated 32,767 times.

`d` = Diagnostic phase(s) to be performed. If '`d`' is specified as a single phase, only that phase will be performed. If '`d`' is specified as a range, '`d`' will be the first phase in that range to be performed.

`e` = The last diagnostic phase in the range between and including '`d`' and '`e`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:EAN output message.

5. REFERENCES

Output Message(s):

`DGN:EAN`

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Input Appendix(es):

```
APP:RANGES
```

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DGN:FPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics on a foundation peripheral controller (FPC) to determine if it is in satisfactory working order.

Note: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

```
DGN:FPC=a[,RAW][,UCL][,RPT[=b]][,PH=c[&&d]][,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute unconditionally.

`a` = FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The number of times the test is to be repeated. If '`b`' is not specified, the test will be repeated 32,767 times.

`c` = Diagnostic phase to be performed or lower limit in a range of phases.

`d` = Upper limit in a range of phases.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:FPC
OP:DMQ
STP:FPC
```

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Output Message(s):

```
DGN:FPC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1240,1250 (MSGS STATUS)

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DGN:GDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a global digital services function (GDSF) circuit to determine whether it is in satisfactory working order. The circuit is left out of service (OOS).

2. FORMAT

```
DGN:GDSF=a-b[,RAW][,UCL][,RPT[=c]][,GROW] [,PH=d[&&e][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally executes. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of times the test is to be repeated. If '`c`' is not specified, the test will be repeated 32,767 times.

`d` = Number of the diagnostic phase(s) to be performed. If '`d`' is specified as a single phase, only that phase will be performed. If '`d`' is specified as a range, '`d`' will be the first phase in that range to be performed.

`e` = Number of the last diagnostic phase in the range between and including '`d`' and '`e`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by a DGN:GDSF output message.

5. REFERENCES

Output Message(s):

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```
DGN:GDSF
RST:GDSF
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:GDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a global digital service unit common (GDSUCOM) board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:GDSUCOM=a-b-c[,RAW][,UCL][,SVG][,RPT[=d]][,GROW][,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`SVG` = Run diagnostics on the entire service group, including the demand phases.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Diagnostic phases to be performed. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified as a range, '`e`' will be the first phase in that range to be performed.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:GDSUCOM output message.

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5. REFERENCES

Output Message(s):

DGN:GDSUCOM

Input Appendix(es):

APP:RANGES

DGN:GDXACC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint access (GDXACC) circuit be removed and diagnosed. This circuit will remain out-of-service (OOS), regardless of the diagnostic's result, until a restore (RST) is requested.

2. FORMAT

```
DGN:GDXACC=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

GROW	Allow access to growth equipment.
RAW	= Prints raw test results (all tests passed (ATP)/some tests failed (STF)) for each phase executed.
TLP	= Print the ordered suspect pack list if a test fails.
UCL	= Unconditionally execute and print all test results requested rather than stopping on first failing phase.
a	= Switching module (SM) number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= The number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.
e	= Diagnostic phase to be performed (1-6). If 'e' is specified as a single phase, only that phase will be performed. If 'e' is specified in a range, 'e' will be the first phase in that range to be performed.
f	= The last diagnostic phase in the range between and including 'e' and 'f' to be performed.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. The request was accepted. The DGN:GDXACC output message follows when the diagnostic is executed.

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5. REFERENCES

Input Message(s):

```
EX:GDXACC
RMV:GDXACC
RST:GDXACC
STP:GDXACC
```

Output Message(s):

```
DGN:GDXACC
```

Input Appendix(es):

```
APP:RANGES
```

DGN:GDXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint compensator (GDXC) circuit be removed and diagnosed. The circuit will remain out-of-service (OOS), regardless of the diagnostic's result until a restore (RST) is requested.

The modular metallic service unit (MSU) GDXC uses a TN880 type circuit pack and the non-modular MSU GDXC uses type TN140 circuit pack.

2. FORMAT

```
DGN:GDXC=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Prints raw test results [all tests passed (ATP)/some tests failed (STF)] for each phase executed.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

`a` = Switching module (SM) number.

`b` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Metallic service unit board position (or metallic service circuit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase to be performed(1). If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified in a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

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`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. The DGN:GDXC output message follows when the diagnostic is executed.

5. REFERENCES

Input Message(s):

```
EX:GDXC
RMV:GDXC
RST:GDXC
STP:GDXC
```

Output Message(s):

```
DGN:GDXC
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:GDXCON

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint control (GDXCON) circuit be removed and diagnosed. This circuit will remain out of service (OOS), regardless of the diagnostic's result, until a restore (RST) is requested.

This circuit does not exist in LU2 line units.

2. FORMAT

```
DGN:GDXCON=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test results [all tests passed (ATP)/some tests failed (STF)] for each phase executed.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

`a` = Switching module (SM) number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Number of the diagnostic phase to be performed (1-6). If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified in a range, '`e`' will be the first phase in that range to be performed.

`f` = Number of the last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

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PF = Printout follows. The request was accepted. The DGN:GDXCON output message follows when the diagnostic is executed.

5. REFERENCES

Input Message(s):

EX:GDXCON
RST:GDXCON
STP:GDXCON

Output Message(s):

DGN:GDXCON

Input Appendix(es):

APP:RANGES

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DGN:GRID

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint grid (GRID) in a line unit concentrator be removed from service and diagnosed. The grid diagnostic does a check of basic power and control access. For a complete test, restore the grid to service and run in-service grid exercises using the TST:GRID input message.

NOTE: Upon completion of this input message, the grid and all lines it serves will remain out of service until a RST:GRID input message is entered.

2. FORMAT

```
DGN:GRID=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure results for each phase executed.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. Default is 32,767.
Note: Use of the default for variable '`d`' is not recommended since lines on the grid will remain out of service for a long time and until a RST input message is entered.

`e` = Number of the diagnostic phase(s) to be performed or the lower limit of a range of diagnostic phases.

`f` = The upper limit of a range of diagnostic phases.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts

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with current status.

`PF` = Printout follows. The request was accepted. The DGN:GRID output message follows after the diagnostic is executed.

5. REFERENCES

Input Message(s):

```
RST:GRID
STP:GRID
TST:GRID
```

Output Message(s):

```
DGN:GRID
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DGN:GRIDBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a line unit model 2; (LU2) or line unit model 3; (LU3) grid board to determine if it is in satisfactory working order.

2. FORMAT

```
DGN:GRIDBD=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute the diagnostic without terminating on the first error.

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number (LU2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number (LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = The number of the diagnostic phase to be performed, or the lower limit of a range of phases.

`g` = The upper limit in the range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:GRIDBD output message.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

DGN:GRIDBD

Input Appendix(es):

APP:RANGES

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DGN:HDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be diagnosed to determine if it is in working order.

2. FORMAT

```
DGN:HDFI=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw data test failure.

`TLP` = Print the ordered pack list if diagnostic fails.

`UCL` = Unconditionally execute.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Number of the diagnostic phase(s) to be run.

`f` = Last phase in the range from '`e`' to '`f`' to be run.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the DGN:HDFI output message.

5. REFERENCES

Output Message(s):

`DGN:HDFI`

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Input Appendix(es):

APP:RANGES

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DGN:HSDC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified high-speed synchronous data link controller (HSDC).

NOTE: The input/output processor (IOP) must be in service before the HSDC can be diagnosed.

2. FORMAT

```
DGN:HSDC=a[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][,PH=c[&&d]][,TLP]
[,CONT];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

`UCL` = Unconditional execution.

NOTE: This option does not override a forced early termination.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is repeated. The maximum is 256. The default is one.
Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Specifies the first phase to be executed.

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`d` = Specifies the last phase to be executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:HSDC output message.

5. REFERENCES

Input Message(s):

```
RMV:HSDC
RST:HSDC
RST:IOP
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:HSDC
RST:IOP
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:IDCU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) service group circuit be diagnosed. Completion of this input message leaves the circuit in the out-of-service state.

NOTE: If the circuit is not initially out of service, the system will first remove the circuit conditionally.

2. FORMAT

```
DGN:IDCU=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow diagnostic access to growth equipment

`RAW` = Print raw test failure data.

`TLP` = Trouble location procedure. Print the ordered pack list.

`UCL` = Unconditionally execute past all non-fatal errors and print out all test failures.

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Number of times that the test is to be repeated (RPT), default is 32,767 times.

`e` = Diagnostic phase (PH) to be executed, or the lower limit of a range of diagnostic phases.

`f` = The upper limit of a range of diagnostic phases.

4. SYSTEM RESPONSE

`PF` = Printout follows. The DGN:IDCU output message follows.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:IDCU
STP:IDCU
```

Output Message(s):

```
DGN:IDCU
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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DGN:IOP

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified input/output processor (IOP).

NOTE: The peripheral controllers (PCs) cannot be diagnosed if the IOP is not in service. Therefore, an IOP and its associated PCs cannot be diagnosed with one input message.

2. FORMAT

```
DGN:IOP=a[:[RPT=b][,RAW][,UCL][,REX|,DEX]][,PH=c[&&d]][,CONT][,TLP]
[,CU=e];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. Defaulted is diagnose IOP `a` only.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

`UCL` = Unconditional execution.

NOTE: This option does not override a forced early termination.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is to be repeated. The maximum is 256. The default is one.

NOTE: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Specifies the first phase to be executed.

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d = Specifies the last phase to be executed.

e = Member number of the CU helper unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

NOTE: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DGN:IOP output message.

RL = Retry later. The system is in an overload condition.

?I = General syntax error followed by the parameter position and one of the following reasons:
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- MISSING DATA = Data required for a keyword in the stated parameter block was not found.
- RANGE ERROR = Input is out of the valid range.

?D = General syntax error in the data field followed by the parameter position and one of the following reasons:
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INCONSISTENT KEYWORD = The combination of keywords is not a valid combination.
- INVALID DATA = Not a valid value for the phrase option.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.

?E = Input error of undetermined type.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:IOP
RST:IOP
STOP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:IOP
OP:DMQ-CM
OP:DMQ-SM
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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DGN:ISLUCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an integrated services line unit common controller (ISLUCC).

2. FORMAT

```
DGN:ISLUCC=a-b-c[,PH=d[&&e]][,RPT[=f]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of the phase to be run, or the lower limit of a range of phases.

`e` = The upper limit of a range of phases to be run.

`f` = The number of times the exercise is to be repeated (1-32676). If '`f`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The DGN:ISLUCC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
OP:DMQ
```

Output Message(s):

```
DGN:ISLUCC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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DGN:ISLUCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an integrated services line unit common data (ISLUCD).

2. FORMAT

```
DGN:ISLUCD=a-b-c[,CAMPON=d][,PH=e[&&f]][,RPT[=g]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

`e` = The number of the phase to be run, or the lower limit of a range of phases.

`f` = The upper limit of a range of phases to be run.

`g` = The number of times the exercise is to be repeated (1-32676). If '`g`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The DGN:ISLUCD output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
OP:DMQ
```

Output Message(s):

```
DGN:ISLUCD
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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DGN:ISLUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses an integrated services line unit high level service circuit (ISLUHLSC) to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:ISLUHLSC=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH={f|f&&g}][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow diagnostic access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute non-fatal errors and print all test failures.

`a` = Switching module (SM) number.

`b` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times that the test is to be repeated. If '`e`' is not specified the test will be repeated 32,767 times.

`f` = Diagnostic phase to be executed. If only '`f`' is specified a single phase will be executed. If '`f`' is specified as part of a range, it will be the first phase executed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be executed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. The DGN:ISLUHLSC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Output Message(s):

```
DGN:ISLUHLSC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)

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DGN:ISLULBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an integrated services line unit line board (ISLULBD).

2. FORMAT

```
DGN:ISLULBD=a-b-c-d[,CAMPON=e][,PH=f[&&g]][,RPT[=h]][,GROW]
[,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

`f` = The number of the phase to be run, or the lower limit of a range of phases.

`g` = The upper limit of a range of phases to be run.

`h` = The number of times the exercise is to be repeated (1-32676). If '`h`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The DGN:ISLULBD output message follows.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:DMQ

Output Message(s):

DGN:ISLULBD

Input Appendix(es):

APP:RANGES

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DGN:ISLULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an integrated services line unit line card (ISLULC).

2. FORMAT

```
DGN:ISLULC=a-b-c-d[,CAMPON=e][,PH=f[&&g]][,RPT[=h]][,GROW]
[,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

`f` = The number of the phase to be run, or the lower limit of a range of phases.

`g` = The upper limit of a range of phases to be run.

`h` = The number of times the exercise is to be repeated (1-32676). If '`h`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The DGN:ISLULC output message follows.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:DMQ

Output Message(s):

DGN:ISLULC

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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DGN:ISLULCKT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an integrated services line unit line circuit (ISLULCKT).

2. FORMAT

```
DGN:ISLULCKT=a-b-c-d-e[,CAMPON=f][,PH=g[&&h]][,RPT[=i]][,GROW]
[,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

`g` = The number of the phase to be run, or the lower limit of a range of phases.

`h` = The upper limit of a range of phases to be run.

`i` = The number of times the exercise is to be repeated (1-32676). If '`h`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

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PF = Printout follows. The DGN:ISLULCKT output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:DMQ

Output Message(s):

DGN:ISLULCKT

Input Appendix(es):

APP:RANGES

Copyright ©2007 Lucent Technologies

DGN:ISLULG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an integrated services line unit line group (ISLULG). When diagnosing an ISLU LC sub-unit option, the line group (LG) will be removed from service, which might disrupt the stability of other active line circuits and degrade service.

2. FORMAT

```
DGN:ISLULG=a-b-c[,CAMPON=d][,PH=e[&&f]][,RPT[=g]][,LB=h[&&i]]]
[,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

`e` = The number of the phase to be run, of the lower limit of range of phases.

`f` = The upper limit of a range of phases to be run.

`g` = The number of times the exercise is to be repeated (1-32676). If variable '`g`' is not specified, the test will be repeated 32,767 times.

`h` = Starting range value of LB (line boards) to perform diagnostics on.

`i` = Ending range value of LB (line boards) on which to perform diagnostics.

If variable '`h`' is specified without variable '`i`' , the single LB specified by variable '`h`' will have diagnostics performed on it.

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If 'h' and 'i' are specified, all equipped LBs from value 'h' to 'i' will have diagnostics performed on them.

If neither 'h' or 'i' is specified, diagnostics of LBs in the range (0-7) is performed.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. The DGN:ISLULG output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:DMQ

Output Message(s):

DGN:ISLULG

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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DGN:ISLULGC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an integrated services line unit line group controller (ISLULGC). When diagnosing an ISLU LC sub-unit option, the line group controller (LGC) will be removed from service, which might disrupt the stability of other active LCs and degrade service.

2. FORMAT

```
DGN:ISLULGC=a-b-c[,CAMPON=d][,PH=e[&&f]][,RPT[=g]][,LC=h[&&i]]]
[,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

`e` = The number of the phase to be run, of the lower limit of range of phases.

`f` = The upper limit of a range of phases to be run.

`g` = The number of times the exercise is to be repeated (1-32676). If variable '`g`' is not specified, the test will be repeated 32,767 times.

`h` = Starting range value of LC (line cards) to perform diagnostics on.

`i` = Ending range value of LC (line cards) on which to perform diagnostics.

If variable '`h`' specified without variable '`i`', the single LC specified by variable '`h`' will have diagnostics performed on it.

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If 'h' and 'i' are specified, all equipped LCs from value 'h' to 'i' will have diagnostics performed on them.

If neither 'h' or 'i' is specified, diagnostic of only the ISLULGC is performed.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. The DGN:ISLULGC output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ
```

Output Message(s):

```
DGN:ISLULGC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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DGN:ISLUMAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses an integrated services line unit metallic access network (ISLUMAN) to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:ISLUMAN=a-b-c-d [,RAW] [,UCL] [,RPT[=e ]][,GROW] [,PH={f|f&&g}] [,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow diagnostic access to

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute non-fatal failures and print all test failures. growth equip.

`a` = Switching module (SM) number.

`b` = ISLU number.

`c` = ISLU service group.

`d` = Access network board.

`e` = The number of times that the test is to be repeated. If '`e`' is not specified the test will be repeated 32,767 times.

`f` = Diagnostic phase to be executed. If only '`f`' is specified a single phase will be executed. If '`f`' is specified as part of a range, it will be the first phase executed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be executed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. The DGN:ISLUMAN output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Copyright ©2007 Lucent Technologies

Output Message(s):

```
DGN:ISLUMAN
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)

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DGN:ISLURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses an integrated services line unit ringing generator (ISLURG) to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:ISLURG=a-b-c [,RAW] [,UCL] [,RPT[=d ]][,GROW] [,PH={e|e&&f}] [,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow diagnostic access to growth equip.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute non-fatal errors and print all test failures.

`a` = Switching module (SM) number.

`b` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times that the test is to be repeated. If '`d`' is not specified the test will be repeated 32,767 times.

`e` = Diagnostic phase to be executed. If only '`e`' is specified a single phase will be executed. If '`e`' is specified as part of a range, it will be the first phase executed.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be executed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. The DGN:ISLURG output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Output Message(s):

```
DGN:ISLURG
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)

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DGN:ISTF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses and removes an integrated service test function (ISTF) unit to determine whether it is in satisfactory working order. The unit is left out-of-service (OOS).

2. FORMAT

```
DGN:ISTF=a-b[,RAW][,UCL][,RPT[=c]][,GROW][,PH-d[&&e]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`RPT` = Repeat test option.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally executes. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number.

`b` = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of times the test is to be repeated. If '`c`' is not specified, the test will be repeated 32,767 times.

`d` = Diagnostic phase to be performed. If '`d`' is specified as a single phase, only that phase will be performed. If '`d`' is specified as a range, '`d`' will be the first phase in that range to be performed.

`e` = The last diagnostic phase in the range between and including '`d`' and '`e`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the DGN:ISTF output message.

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RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

RST:ISTF

Output Message(s):

DGN:ISTF

Input Appendix(es):

APP:RANGES

DGN:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an inter-working gateway link interface (IWGLI).

2. FORMAT

```
DGN:IWGLI=a-b-c-d[,PH=e[&&f]][,RPT[=g]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute and print all test failures unconditionally

`a` = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-Working Gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data Group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Inter-Working Gateway Link Interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of the phase to be run, or the lower limit of a range of phases.

`f` = The upper limit of a range of phases to be run.

`g` = The number of times the exercise is to be repeated (1-32766). If '`g`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:IWGLI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
ABT:IWGLI
STP:IWGLI
RST:IWGLI
```

Output Message(s):

```
DGN:IWGLI
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *Corrective Maintenance*

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DGN:LDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a local digital service function (LDSF) circuit to determine whether it is in satisfactory working order. The circuit is left out of service (OOS).

2. FORMAT

```
DGN:LDSF=a-b[,RAW][,UCL][,RPT[=c]][,GROW][,PH=d[&&e][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally executes. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of times the test is to be repeated. If '`c`' is not specified, the test will be repeated 32,767 times.

`d` = Number of the diagnostic phase(s) to be performed. If '`d`' is specified as a single phase, only that phase will be performed. If '`d`' is specified as a range, '`d`' will be the first phase in that range to be performed.

`e` = Number of the last diagnostic phase in the range between and including '`d`' and '`e`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:LDSF output message.

5. REFERENCES

Output Message(s):

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```
DGN:LDSF
RST:LDSF
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:LDSU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a local digital service unit- model 2; (LDSU2) board to determine whether it is in satisfactory working order. The service group is left out-of-service (OOS).

2. FORMAT

```
DGN:LDSU=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW] [,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally executes. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number.

`b` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Number of the diagnostic phase(s) to be performed. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified as a range, '`e`' will be the first phase in that range to be performed.

`f` = Number of the last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:LDSU output message.

5. REFERENCES

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Output Message(s):

```
DGN:LDSU
RST:LDSU
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:LDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a local digital service unit common (LDSUCOM) board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:LDSUCOM=a-b-c[,RAW][,UCL][,SVG][,RPT[=d]][,GROW][,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`SVG` = Run diagnostics on the entire service group, including the demand phases.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Number of the diagnostic phases to be performed. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified as a range, '`e`' will be the first phase in that range to be performed.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:LDSUCOM output message.

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5. REFERENCES

Output Message(s):

DGN:LDSUCOM

Input Appendix(es):

APP:RANGES

DGN:LI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the link interface (LI) in the specified office network and timing complex (ONTC) be diagnosed.

NOTE: This message is only valid for offices with communication module model 1 (CM1) hardware.

2. FORMAT

```
DGN:LI=a[,RAW][,UCL][,RPT[=b]][,PH=c[&&d][,TLP][,HELPER=e];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list if a test fails.

`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`a` = LI side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is to be repeated (RPT) (default 32,767).

`c` = The number of the phase (PH) to be executed, or the lower limit in a range of phases.

`d` = Upper limit in a range of phases.

`e` = Specifies the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the DGN:LI output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

Copyright ©2007 Lucent Technologies

```
ABT:LI
STP:LI
```

Output Message(s):

```
DGN:LI
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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DGN:LN

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the specified link nodes (LN) be diagnosed.

Four sequential system actions are performed in response to this input message.

A = The LN is removed from service following the rules for the RMV:LN input message.

B = If the resultant LN major state is outofservice (OOS), growth (GROW), offline (OFL), or unavailable (UNAV), an attempt is made to isolate the LN. For other major states, the diagnostic is aborted by the diagnostic monitor (DIAMON).

C = The specified (or default) diagnostic phases are run.

D = If the LN was in the active ring before the start of the diagnostics and was successfully isolated (in 2 above), an attempt is made at the conclusion of the diagnostic to include the LN back into the active ring. Otherwise the node is left in its original ring configuration state. The LN remains in the OOS, GROW, OFL, or UNAV state.

Note: The UCL and TLP parameters must not be used together as it may produce an incorrect TLP listing.

2. FORMAT

```
DGN:LNa=b[:[RPT=c][,RAW][,UCL]][:PH=d[&&e][,CU=f][,TLP]];
```

3. EXPLANATION OF MESSAGE

`CU` = Helper Control Unit.

`PH` = This option indicates the phase or phases to be run in the diagnostic.

`RAW` = Print the diagnostic results of every phase. The default is to print the results of the first five failures of each failing phase.

`RPT` = This option allows for repetition of the diagnostics c number of times.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. The TLP generates a list of suspected faulty equipment.

`UCL` = Execute unconditionally. This option overrides early terminations but does not override a forced early termination.

`a` = Ring node group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Number of times the diagnostic is to be repeated (default is 1, maximum is 256).
Note: This option does not override early termination. UCL should also be specified if the diagnostic is arranged to terminate early.

`d` = Phase number or lower limit of a range of phase numbers to be executed (default, all automatic phases).

`e` = Upper limit of a range of phase numbers to be executed.

`f` = (0 or 1) - Off-line CU required as a helper unit when demand phase 34 is specified for a DLN.
NOTE: The helper CU must be out of service and all tests passed (ATP) before it can be used as a helper.

4. SYSTEM RESPONSE

`PF` = Printout follows. The DGN:LN output message follows.

5. REFERENCES

Input Message(s):

```
CHG:SLK
OP:DMQ
RMV:LN
```

Output Message(s):

```
DGN:LN
OP:DMQ
RMV:LN
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s): Signaling Service Feature
235-190-120 *Common Channel Signaling Services and Associated*

MCC Display Page(s):

118 (CNI RING STATUS PAGE)
1520 (RING NODE STATUS PAGE)

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DGN:LUCHAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit channel (LUCHAN) on a line unit channel board (LUCHBD) be removed and diagnosed to determine if it is in satisfactory working order. The channel will remain out of service (regardless of the diagnostic result) until a restore (RST) is entered.

2. FORMAT

```
DGN:LUCHAN=a-b-c-d-e[,RAW][,UCL][,RPT[=f]][,GROW][,PH=g[&&h][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure results for each phase executed.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first failure.

`a` = Switching module (SM) number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = The number of times the test is to be repeated. If '`f`' is not specified, the test will be repeated 32,767 times.

`g` = Diagnostic phase(s) to be performed. If '`g`' is specified as a single phase, only that phase will be performed. If '`g`' is specified as a range, '`g`' will be the first phase in that range to be performed.

`h` = The last diagnostic phase in the range between and including '`g`' and '`h`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts

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with current status.

PF = Printout follows. The request was accepted. The DGN:LUCHAN output message follows after the diagnostic is executed.

5. REFERENCES

Input Message(s):

```
RMV:LUCHBD
RST:LUCHAN
RST:LUCHBD
STP:LUCHAN
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:LUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit channel board (LUCHBD) be removed and diagnosed to determine whether it is in satisfactory working order. All channel circuits and the board are removed from service and each is diagnosed. Failures are reported with a DGN:LUCHAN output message. All channels remain out of service (regardless of the diagnostic result) until a restore (RST) of the LUCHBD is entered.

2. FORMAT

```
DGN:LUCHBD=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure results for each phase of the LUCHAN diagnostic executed on all eight channels.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts

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with current status.

PF = Printout follows. The request was accepted. Followed by the DGN:LUCHBD output message.

5. REFERENCES

Input Message(s):

```
DGN:LUCHAN
RST:LUCHAN
RST:LUCHBD
STP:LUCHBD
```

Output Message(s):

```
DGN:LUCHBD
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:LUCOMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit common control (LUCOMC) be diagnosed. The circuit will remain out-of-service (OOS) (regardless of the diagnostic's result) until a restore (RST) is requested.

2. FORMAT

```
DGN:LUCOMC=a-b-c[,RAW][,UCL][,SVG][,RPT[=d]][,GROW][,PH=e[&&f][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test results (all tests passed (ATP)/some tests failed (STF)) for each phase executed.

`SVG` = Run diagnostics, including the demand phases, on the entire service group.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Diagnostic beginning phase to be performed. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified in a range, '`e`' will be the first phase in that range to be performed.

There are 5 phases associated with the LU1 line unit diagnostic and 7 phases associated with the LU2 line unit diagnostic. Phase 5 for LU1 and phase 7 for LU2 are demand-only phases. These phases are concerned with verifying the interface from the common controller to peripheral units (GDXACC, HLSC, CHANBD and GRID) for all-seems-well, service request, and power alarms. The phases should normally be run after replacing a defective controller or to verify the interface to the peripheral circuits.

For LU1 when one module controller/time slot interchanger (MCTSI) is OOS, phases 1 and 4

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yield CATP; phase 3 yields no tests run (NTR). For LU2 when one MCTSI is OOS, phases 1 and 6 yield conditional all tests passed (CATP); phase 5 yields NTR.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. The DGN:LUCOMC output message follows when the diagnostic is executed.

5. REFERENCES

Input Message(s):

```
RMV:LUCOMC
RST:LUCOMC
```

Output Message(s):

```
DGN:LUCOMC
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:LUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit high service circuit (LUHLSC) be removed and diagnosed to determine if it is in satisfactory working order.

Note: = The LUHLSC will remain out of service (00S) until a restore (RST) is entered.

2. FORMAT

```
DGN:LUHLSC=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure results for each phase executed.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = High-level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts

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with current status.

PF = Printout follows. The request was accepted. The DGN:LUHLSC output message follows after the diagnostic executes.

5. REFERENCES

Input Message(s):

```
RST:LUHLSC
STP:LUHLSC
```

Output Message(s):

```
DGN:LUHLSC
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:MA

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic access (MA) board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:MA=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Number of the diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:MA output message.

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5. REFERENCES

Output Message(s):

```
DGN:MA
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:MAB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the metallic access bus (MAB) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:MAB=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute.

`a` = Switching module number.

`b` = Unit number.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If the number is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.

`g` = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:MAB output message.

5. REFERENCES

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Output Message(s):

```
DGN:MAB
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:MCTSI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Removes and diagnoses a module control/time-slot interchange unit (MCTSI) to determine if it is in satisfactory working order. The MCTSI will remain out of service (regardless of the result of the diagnostic) until a restore (RST) is entered.

2. FORMAT

```
DGN:MCTSI=a-b[,RAW][,UCL][,RPT[=c]][,GROW] [[,PH=d[&&e]]|[,RETRO]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure results for each phase executed.

`RETRO` = Conditionally execute only the diagnostic phase or range of phases which are designated for use in a retrofit situation. This option and the PH (demand phase) option are redundant and not allowed on the same input message line. Compatible with all other options.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failures.

`a` = Switching module (SM) number.

`b` = Module control unit/side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of times the test is to be repeated. If '`c`' is not specified, the test will be repeated 32,767 times.

`d` = Number of the diagnostic phase(s) to be performed. If '`d`' is specified as a single phase, only that phase will be performed. If '`d`' is specified as a range, '`d`' will be the first phase in that range to be performed.

Special demand phases may be requested also. Valid value(s):

`Phase 7` = Complete memory tests. Phase 6 (which runs as a part of the MCTSI diagnostic) does a quick test of memory system. Phase 7 does a more exhaustive test which takes several minutes to run. This phase should be requested when a MCTSI is removed from service due to MEM SYSTEM interrupts.

`Phase 90` = Tests TN874 board and is for use only in retrofit situations where module controller time slot interchange unit model 2 (MCTU2) hardware is not

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involved. Can be run on demand or by specifying the RETRO option on the input message line. The circuits on the board are tested and a checksum test over all EPROM is done using the stored checksum in EPROM. The final test compares the stored microcode number with that in the active MCTSI side. This test will fail if the microcode number is the same as that in the active side. For retrofit situations involving MCTU2 hardware a range of phases need to be executed to perform retrofit testing requirements. This diagnostic phase selection should be initially keyed by the RETRO option.

`e` = The last diagnostic phase in the range between and including '`d`' and '`e`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. The DGN:MCTSI output message follows when the diagnostic is executed. Use the OP:SM-DMQUE input message to determine if the diagnostic request is waiting in the diagnostic control program's queue.

5. REFERENCES

Input Message(s):

```
RST:MCTSI
STP:MCTSI
SW:MCTSI
```

Output Message(s):

```
DGN:MCTSI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:MHD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified moving head disk (MHD).

Note: The disk file controller (DFC) must be in service before the MHD can be diagnosed.

2. FORMAT

```
DGN:MHD=a[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][,PH=c[&&d]][,TLP]
[,CONT];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require manual interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

`UCL` = Unconditional execution.
Note: This option does not override a forced early termination.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is repeated. The maximum is 256. The default is one.
Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Number of the first phase to be executed.

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`d` = Number of the last phase to be executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:MHD output message.

5. REFERENCES

Input Message(s):

`OP:DMQ`
`RMV:MHD`
`RST:MHD`
`STOP:DMQ`
`STP:DMQ`

Output Message(s):

`ANALY:TLPFILE`
`DGN:MHD`
`OP:DMQ`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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DGN:MI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the message interface (MI) in the specified office network and timing complex (ONTC) be diagnosed. This command is not applicable for offices having CM3 vintage communication modules.

2. FORMAT

```
DGN:MI=a[,RAW][,UCL][,RPT[=b]][,PH=c[&&d]][,TLP][,HELPER=e];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print the ordered suspected pack list if a test fails.

`TLP` = Print the ordered suspected pack list if a test fails.

`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`a` = MI side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is to be repeated (RPT) (default 32,767).

`c` = The number of diagnostic phase (PH) to be performed, or the lower limit in a range of phases.

`d` = Upper limit in a range of phases.

`e` = Specifies the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the DGN:MI output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

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```
ABT:MI
STP:MI
```

Output Message(s):

```
DGN:MI
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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DGN:MICU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a message interface control unit (MICU) subunit of the specified office network and timing complex (ONTC) be diagnosed.

2. FORMAT

```
DGN:MICU=a[,RAW][,UCL][,RPT[=b]][,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list if a test fails.

`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`a` = MICU side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is to be repeated (RPT) (default 32,767).

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the DGN:MI output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:MICU
DGN:LI
DGN:MI
DGN:NC
STP:MICU
```

Output Message(s):

```
DGN:MI
```

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Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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DGN:MMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a module message processor (MMP) be diagnosed to determine whether it is in satisfactory working order.

Note: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

```
DGN:MMP=a-b[,RAW][,UCL][,RPT[=c]][,PH=d[&&e]][,TLP][,GROW];
```

3. EXPLANATION OF MESSAGE

`GROW` = Run diagnostics on an MMP in the GROW or SGRO state. If the MMP is GROW or SGRO, this option must be input to perform the diagnostic. If a subpart (for example, synchronous data link controller (SDLC)) of the MMP is in the GROW or SGRO state, the GROW option must be used to diagnose those subpieces. Without the GROW option, only the parts that are operational (OPER) will be diagnosed.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of times the test is to be repeated. If the number is not specified, the test will be repeated 32,767 times.

`d` = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.

`e` = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by a DGN:MMP output message.

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`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:MMP
DGN:MSGS
OP:CFGSTAT
RST:MMP
STP:MMP
```

Output Message(s):

```
DGN:MMP
RST:MMP
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Diagnoses the specified message switch control unit (MSCU).

Note: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

```
DGN:MSCU=a[,RAW][,UCL][,RPT[=b]][,PH=c[&&d]][,TLP][,GROW];
```

3. EXPLANATION OF MESSAGE

GROW = If the unit or one of its subunits is in the GROW or special grow (SGROW) equipage state, this option must be input for a diagnostic to execute on that unit or subunit. If the unit is not in a growth state, the option will have no effect.

RAW = Prints the raw test results for each phase that is executed.

TLP = Execute the trouble location procedure at the conclusion of the diagnostic. This process prints an ordered suspect pack list if a test fails.

UCL = Unconditionally execute and print all test results rather than stopping on the first failing phase.

a = Message switch (MSGS) side.

b = Number of times the diagnostic is executed. If 'b' is not specified, the test will be repeated 32,767 times.

c = Number of diagnostic phase to be executed, or a lower limit of a range of phases.

d = Upper limit of a range of numbers if diagnostic phases.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

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5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
OP:DMQ
```

Output Message(s):

```
DGN:MSCU
OP:DMQ-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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DGN:MSGS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics on a message switch (MSGS) to determine if it is in satisfactory working order.

2. FORMAT

```
DGN:MSGS=a[,RAW][,UCL][,RPT[=b]][PH=c[&&d]][,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute unconditionally.

`a` = MSGS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The number of times the test is to be repeated. If '`b`' is not specified, the test will be repeated 32,767 times.

`c` = Diagnostic phase to be performed or lower limit in a range of phases.

`d` = Upper limit in a range of phases.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:MSGS
OP:DMQ
STP:MSGS
```

Output Message(s):

```
DGN:MSGS
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1240,1250 MSGS STATUS

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DGN:MSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic service unit common (MSUCOM) board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:MSUCOM=a-b-c[,RAW][,UCL][,SVG][,RPT[=d]][,GROW]
[,PH=e[&&f]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`SVG` = Run diagnostics on the entire service group, including the demand phases.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Number of the diagnostic phases to be performed. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified as a range, '`e`' will be the first phase in that range to be performed.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:MSUCOM output message.

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5. REFERENCES

Output Message(s):

DGN:MSUCOM

Input Appendix(es):

APP:RANGES

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DGN:MT

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified magnetic tape (MT).

Note: The disk file controller (DFC) must be in service before the MT can be diagnosed.

2. FORMAT

```
DGN:MTa[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][:DATA[,PH=c[&&d]][,TLP][,CONT]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit controller (CONT). Units attached to the specified unit are not to be included. If the specified unit has no attached units, CONT is ignored.

`DEX` = Runs demand exercise (DEX) phases in addition to REX and normal (automatic) phases. This option does not allow special DEX phases that require user interaction to run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise (REX) phases in addition to the normal (automatic) phases. This option does not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters cannot be used together, because additional test results may adversely affect the TLP listing.

`UCL` = Unconditional (UCL) execution.
Note: This option does not override a forced early termination.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is repeated. The maximum is 256. The default is one.
Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Number of the first phase to be executed.

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`d` = Number of the last phase to be executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:MT output message.

`RL` = Retry later. The system is in an overload condition.

`?I` = General syntax error, followed by the parameter position. May also include:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING DAT` = Data required for a keyword in the stated parameter block was not found.
- `MISSING KEYWORD` = A required keyword is missing from the input. Unit to diagnose must be specified.
- `RANGE ERROR` = Input is out of the valid range.

`?D` = General syntax error in the data field, followed by the parameter position. Valid value(s):
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INCONSISTENT KEYWORD` = The combination of keywords is not a valid combination.
- `INVALID DATA` = Not a valid value for the phase option.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.

`?E` = Input error of undetermined type.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:MT
RST:MT
```

Output Message(s):

```
ANALY:TLPFILE
DGN:MT
OP:DMQ
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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DGN:MTB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic access test bus (MTB) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:MTB=a-b-c-d-e[,RAW][,UCL][,RPT[=f]][,GROW][,PH=g[&&h]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Metallic access board number.

`e` = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = The number of times the test is to be repeated. If '`f`' is not specified, the test will be repeated 32,767 times.

`g` = Number of the diagnostic phase(s) to be performed. If '`g`' is specified as a single phase, only that phase will be performed. If '`g`' is specified as a range, '`g`' will be the first phase in that range to be performed.

`h` = The last diagnostic phase in the range between and including '`g`' and '`h`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts

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with current status.

PF = Printout follows. The request was accepted. Followed by the DGN:MTB output message.

5. REFERENCES

Output Message(s):

DGN:MTB

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1135/1145 (MSU MA STATUS)

DGN:MTC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified magnetic tape controller (MTC).

Note: The input/output processor (IOP) must be in service before the MTC can be diagnosed.

2. FORMAT

```
DGN:MTC=a[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][,PH=c[&&d]][,TLP]
[,CONT][,MT=e];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require manual interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Unconditional execution.
Note: This option does not override a forced early termination.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is to be repeated. The maximum is 256. The default is one.
Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Specifies the number of the first phase to be executed.

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`d` = Specifies the last phase to be executed.
Note: Before phase 5 is executed, a diagnostic test tape with a write ring must be mounted on the specified MT.

`e` = Member number of the magnetic tape device that is to be used as a helper unit (0-255). When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. Member number of the magnetic tape (MT) device helper unit is required when demand phase 5 is executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:MTC output message.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:MTC
RST:MTC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:MTC
OP:DMQ-CM
OP:DMQ-SM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:MTIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the metallic test interconnect bus (MTIB) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:MTIB=a[,RAW][,UCL][,RPT[=b]][,GROW][,PH=c[&&d]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute.

`a` = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Repeat the test '`b`' times. If '`b`' is not specified, the test will be repeated 32,767 times.

`c` = Number of the diagnostic phase(s) to be performed or low end of range of diagnostic phases.

`d` = High end of diagnostics phases to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:MTIB output message.

5. REFERENCES

Output Message(s):

`DGN:MTIB`

Input Appendix(es):

`APP:RANGES`

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DGN:MTIBAX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the metallic test interconnect bus access (MTIBAX) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:MTIBAX=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute.

`a` = Switching module number.

`b` = Unit number.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Repeat the test '`e`' times. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase to be performed or low end of range of diagnostic phases.

`g` = High end of diagnostic phases to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:MTIBAX output message.

5. REFERENCES

Output Message(s):

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```
DGN:MTIBAX
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:MTTYC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified maintenance teletypewriter controller (MTTYC).

Note: The input/output processor (IOP) must be in service before the MTTYC can be diagnosed.

2. FORMAT

```
DGN:MTTYC=a[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][,PH=c[&&d]][,TLP]
[,CONT];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require user interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters should not be used together, as additional test results may adversely affect the TLP listing.

`UCL` = Unconditional execution.
Note: This option does not override a forced early termination.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is repeated. The maximum is 256. The default is one.
Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Specifies the first phase to be executed.

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`d` = Specifies the last phase to be entered.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:MTTYC output message.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:MTTYC
RST:MTTYC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:MTTYC
OP:DMQ-CM
OP:DMQ-SM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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DGN:NC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the network clock (NC) in the specified office network and timing complex (ONTC) be diagnosed. This command is not applicable for offices having CM3 vintage communication modules.

2. FORMAT

```
DGN:NC=a[,RAW][,UCL][,RPT[=b]][,PH=c[&&d]][,TLP][,HELPER=e];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list if a test fails.

`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`a` = NC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of times the diagnostic is to be repeated (RPT) (default 32,767).

`c` = The number of the phase (PH) to be performed, or the lower limit in a range of phases.

`d` = Upper limit in a range of phases.

`e` = The number of the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the DGN:NC output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

`ABT:NC`

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```
STP:NC
```

Output Message(s):

```
DGN:NC
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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DGN:NLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnosis of a specific network link interface (NLI) in a switching module (SM) on a specified office network and timing complex (ONTC) side, to determine if it is in satisfactory working order. Completion of this request leaves the unit in the out-of-service (OOS) state.

NOTE: If the unit is not OOS, the system first removes the unit conditionally.

2. FORMAT

```
DGN:NLI=a-b-c[,RAW][,UCL][,RPT[=d]][,PH={e|e&&f}] [,TLP][,GROW];
```

3. EXPLANATION OF MESSAGE

`GROW` = Run the diagnostic on an NLI in the GROW state, or in an SM in the special grow (SGRO) state. If the NLI is GROW or the SM is in the SGRO equipage state, this option must be input to perform the diagnostic.

`RAW` = Print data from raw data test failure.

`RPT` = Repeat the diagnostic '`d`' times.

`TLP` = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty circuit packs.

`UCL` = Unconditionally execute and print all test failures rather than printing only the first failure and stopping.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ONTC side number.

`d` = The number of times the diagnostic is to be repeated. If '`d`' is not specified, the test is repeated 32,767 times.

`e` = Number of the diagnostic phase (PH) to be executed. If '`e`' is specified as a single phase, only that phase will be executed. If '`f`' is specified as a range it is the first phase in that range to be executed.

`f` = The last phase of the diagnostic in the range between '`e`' and including '`f`' to be executed.

4. SYSTEM RESPONSE

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NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:NLI
EX:NLI
OP:DMQ-CM-SM
RMV:NLI
RST:NLI
STP:NLI
```

Output Message(s):

```
DGN:NLI
OP:DMQ-CM
OP:DMQ-SM
RST:NLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance Procedures*
235-105-250 *System Recovery Procedures*
235-700-300 *Peripheral Diagnostic Language Reference Manual*

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)

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DGN:OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an optical facility interface (OFI). This circuit remains out-of-service (OOS), and the ports are denied service, regardless of the result of the diagnostic, until a restore is requested.

2. FORMAT

```
DGN:OFI=a-b-c-d[,PH=e[&&f]][,RPT~[=g]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list if a test fails.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Start phase of the range of diagnostic phases to be performed.

`f` = End phase of the range of diagnostic phases to be performed.

`g` = The number of times the test is to be repeated. The maximum is 32,000 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The DGN:OFI output message follows.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RST:OFI
STP:OFI
```

Output Message(s):

```
DGN:OFI
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):
1490 OIU STATUS

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DGN:ONTC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics on an office network and timing complex (ONTC) to determine if it is in satisfactory working order. This command is not applicable for offices having CM3 vintage communication modules.

2. FORMAT

```
DGN:ONTC=a[,RAW][,UCL][,RPT[=b]][,TLP][,HELPER=c];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list if a test fails.

`UCL` = Print all test results unconditionally rather than just printing the first failing test. This includes executing all dual link interface (DLI) diagnostics if the ONTC common (ONTCCOM) fails.
Note: This may create volumes of ROP output if many failures occur.

`a` = ONTC side.

`b` = The number of times the diagnostic is to be repeated (RPT) (default 32,767).

`c` = Specify the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the DGN:ONTC output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
DGN:DLI
DGN:LI
DGN:MI
DGN:NC
DGN:QLPS
```

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```
DGN:TMS
```

Output Message(s):

```
DGN:ONTC
DGN:QLPS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1209 (ONTC 0 & 1)
1220 (TMS 0/1 LINK SUMMARY)
1240,1250 (MSGS 0/1 SUMMARY 1-0, 8-9)
1800 (MCTSI)

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DGN:ONTCCOM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified office network and timing common units (ONTCCOM) be diagnosed. The ONTCCOM is made up of the following entities:

- Message interface (MI).
- Network clock (NC).
- Time multiplexed switch (TMS) excluding the network control and timing links (NCTLNKs).
- Link interface (LI), which exists only in the communication module model 1 (CM1) hardware.

2. FORMAT

```
DGN:ONTCCOM=a[,RAW][,UCL][,RPT[=b]][,TLP]
[,PH=c[&&d]][,TMSLNK=e[&&f]][,GROW][,HELPER=g];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list is a test fails.

`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`GROW` = Allows access to growth equipment.

`a` = ONTC side.

`b` = Number of times the diagnostic is to be executed (RPT) (default 32,767).

`c` Diagnostic beginning phase to be performed.

`d` Diagnostic ending phase to be performed.

`e` TMS link number to start diagnostic from. This option is applicable only in Communication Module model 3 (CM3). Used only with diagnostic phases 20 and 21. If it's the only range limit specified then it's the only TMS link being diagnosed. If neither range limit specified then the whole range of 4-371 is implied.

`f` TMS link number to end diagnostic at. This option is applicable only in CM3.

`g` = Specify the foundation peripheral controller (FPC) side to be used as a 'helper' unit. If this option is not input, the standby FPC will be used. This option is not legal in CM3.

4. SYSTEM RESPONSE

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`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the DGN:ONTCCOM output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
DGN:DLI
DGN:LI
DGN:MI
DGN:NC
DGN:TMS
```

Output Message(s):

```
DGN:ONTCCOM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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DGN:PCTDX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on a peripheral control and timing data exchanger (PCTDX)

2. FORMAT

```
DGN:PCTDX=a-b-c[,PH=d[&&e]][,RPT[=f]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`PH` = The phase or phases to be run in the diagnostic.

`RAW` = Print raw test failure data.

`RPT` = Repeat test option.

`TLP` = Print the ordered pack list if diagnostic fails.

`UCL` = Execute and print all test failures unconditionally.

`a` = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of the phase to be run, or the lower limit of a range of phases.

`e` = The upper limit of a range of phases to be run.

`f` = The number of times the exercise is to be repeated (1-32766). If '`f`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:PCTDX output message.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:PCTDX
STP:PCTDX
RST:PCTDX
```

Output Message(s):

```
DGN:PCTDX
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *Corrective Maintenance*

MCC Display Page(s):

1330,y (PDXU)

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DGN:PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Removes and diagnoses a specified PCT (Peripheral Control and Timing) link. The circuit remains OOS (Out-of-Service), and the ports are denied service, regardless of the result of the diagnostic, until a RST (restore) is requested.

2. FORMAT

```
DGN:PLTLK=a-b-c-d[,PH=e[&&f]][,RPT[=g]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of the phase to be run, or the lower limit of a range of phases. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = The upper limit of a range of phases to be run. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = The number of times the diagnostic phases are to be repeated (1-32676). If variable '`g`' is not specified, the phases will be repeated 32,767 times.

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

4. SYSTEM RESPONSE

`NG` = No good. Valid values are:

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- REASON FOR NG = The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A DGN PLTLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

```
ABT:PLTLK
STP:PLTLK
RST:PLTLK
RMV:PLTLK
SW:PLTLK
```

Output Message(s):

```
DGN:PLTLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1430 (PLTU Status page)

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DGN:PMU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a precision measurement unit (PMU) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:PMU=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module (SM) number.

`b` = Directly connected test unit number.

`c` = Circuit number.

`d` = The number of times the test is to be repeated. If variable '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.

`f` = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:PMU output message.

5. REFERENCES

Output Message(s):

```
DGN:PMU
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:PPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics on a pump peripheral controller (PPC) to determine if it is in satisfactory working order.

Note: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

```
DGN:PPC=a[,RAW][,UCL][,RPT[=b]][,PH=c[&&d]][,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute unconditionally.

`a` = PPC number.

`b` = The number of times the test is to be repeated. If '`b`' is not specified, the test will be repeated 32,767 times.

`c` = Diagnostic phase to be performed or lower limit in a range of phases.

`d` = Upper limit in a range of phases.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:PPC
OP:DMQ
STP:PPC
```

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Output Message(s):

```
DGN:PPC
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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DGN:PROTO

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the protocol circuit (PROTO) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:PROTO=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute.

`a` = Switching module number.

`b` = Unit number.

`c` = Service group number.

`d` = Repeat the test '`d`' times. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.

`f` = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:PROTO output message.

5. REFERENCES

Output Message(s):

`DGN:PROTO`

Other Manual(s):

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235-105-220 *Corrective Maintenance*

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DGN:PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) common (COM) controller be diagnosed. Completion of this input message leaves the unit in the out-of-service (OOS) state.

NOTE: If the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
DGN:PSUCOM=b-c-d[,PH=f[&&g]][,RPT[=h]][,SHELF=i][,FSTEST]
[,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`FSTEST` = Allows the factory demand phases 80, 81, 82, 83 to be executed.
- These demand phases are intended for factory use only, and should not be used in a live office with active PHs.
- Factory demand phases 80, 81, 82, 83 will be run not only on the PSUPH specified in the DGN input message, but on all out-of-service PSUPHs.
- FSTEST has no effect on normal PSUPH diagnostic.
- The factory demand phases do not support TLP.
- If factory demand phases are run without the FSTEST option the result is "no test run" (NTR).
- The PERIIA audit must be manually inhibited prior to running these factory demand phases. `INH:AUD=PERIIA,SM=x;`
- The PSUPH specified can be any out-of-service protocol handler.
- While running factory demand phases 80, 81, 82, 83, restores of PSUCOMs and PSUPH should not be performed.

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`SHELF` = Subunit.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failure.

`b` = Switching module (SM) number.

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`c` = PSU number.

`d` = Service group number.

`f` = Number of the diagnostic phase to be run or the lower limit of a range of phases.

`g` = Upper limit of a range of phases.

`h` = Repeat count. Number of times the test is to be repeated. Default (1 - 32,767).

`i` = The PSUCOM shelf to be diagnosed. If SHELF is not specified, diagnostics will be performed on all shelves. FSTEST option should only be used for the factory system test.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:PSU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`DGN:PSU`

MCC Display Page(s):

PSU Shelf
PSU Network

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DGN:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) common (COM) controller be diagnosed. Completion of this input message leaves the unit in the out-of-service (OOS) state.

NOTE: If the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
DGN:PSUCOM=b-c-d[,PH=f[&&g]][,RPT[=h]][,SHELF=i][,FSTEST]
[,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`FSTEST` = Allows the factory demand phases 80, 81, 82, 83 to be executed.
- These demand phases are intended for factory use only, and should not be used in a live office with active PHs.
- Factory demand phases 80, 81, 82, 83 will be run not only on the PSUPH specified in the DGN input message, but on all out-of-service PSUPHs.
- FSTEST has no effect on normal PSUPH diagnostic.
- The factory demand phases do not support TLP.
- If factory demand phases are run without the FSTEST option the result is "no test run" (NTR).
- The PERIIA audit must be manually inhibited prior to running these factory demand phases. `INH:AUD=PERIIA,SM=x;`
- The PSUPH specified can be any out-of-service protocol handler.
- While running factory demand phases 80, 81, 82, 83, restores of PSUCOMs and PSUPH should not be performed.

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`SHELF` = Subunit.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failure.

`b` = Switching module (SM) number.

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`c` = PSU number.

`d` = Service group number.

`f` = Number of the diagnostic phase to be run or the lower limit of a range of phases.

`g` = Upper limit of a range of phases.

`h` = Repeat count. Number of times the test is to be repeated. Default (1 - 32,767).

`i` = The PSUCOM shelf to be diagnosed. If SHELF is not specified, diagnostics will be performed on all shelves. FSTEST option should only be used for the factory system test.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:PSU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`DGN:PSU`

MCC Display Page(s):

PSU Shelf
PSU Network

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DGN:PSUPH-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a packet switch unit (PSU) protocol handler (PH) be diagnosed. Completion of this input message leaves the unit in the out-of-service (OOS) state.

NOTE: If the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
DGN:PSUPH=b-c-d[-e][,PH=f[&&g]][,RPT[=h]][,SHELF=i][,FSTEST]
[,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`FSTEST` = Allows the factory demand phases 80, 81, 82, 83 to be executed.

- These demand phases are intended for factory use only, and should not be used in a live office with active PHs.
- Factory demand phases 80, 81, 82, 83 will be run not only on the PSUPH specified in the DGN input message, but on all out-of-service PSUPHs.
- FSTEST has no effect on normal PSUPH diagnostic.
- The factory demand phases do not support TLP.
- If factory demand phases are run without the FSTEST option the result is "no test run" (NTR).
- The PERIIA audit must be manually inhibited prior to running these factory demand phases. `INH:AUD=PERIIA,SM=x;`
- The PSUPH specified can be any out-of-service protocol handler.
- While running factory demand phases 80, 81, 82, 83, restores of PSUCOMs and PSUPH should not be performed.

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`SHELF` = Subunit.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test

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failure.

`b` = Switching module (SM) number.

`c` = PSU number.

`d` = Shelf number.

`e` = Protocol handler number.

`f` = Number of the diagnostic phase to be run or the lower limit of a range of phases.

`g` = Upper limit of a range of phases.

`h` = Repeat count. Number of times the test is to be repeated. Default (1 - 32,767).

`i` = The PSUCOM shelf to be diagnosed. If SHELF is not specified, diagnostics will be performed on all shelves.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:PSU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`DGN:PSU`

MCC Display Page(s):

PSU Shelf
PSU Network

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DGN:PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a packet switch unit (PSU) protocol handler (PH) be diagnosed. Completion of this input message leaves the unit in the out-of-service (OOS) state.

NOTE: If the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
DGN:PSUPH=b-c-d[-e][,PH=f[&&g]][,RPT[=h]][,SHELF=i][,FSTEST]
[,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`FSTEST` = Allows the factory demand phases 80, 81, 82, 83 to be executed.

- These demand phases are intended for factory use only, and should not be used in a live office with active PHs.
- Factory demand phases 80, 81, 82, 83 will be run not only on the PSUPH specified in the DGN input message, but on all out-of-service PSUPHs.
- FSTEST has no effect on normal PSUPH diagnostic.
- The factory demand phases do not support TLP.
- If factory demand phases are run without the FSTEST option the result is "no test run" (NTR).
- The PERIIA audit must be manually inhibited prior to running these factory demand phases. `INH:AUD=PERIIA,SM=x;`
- The PSUPH specified can be any out-of-service protocol handler.
- While running factory demand phases 80, 81, 82, 83, restores of PSUCOMs and PSUPH should not be performed.

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`SHELF` = Subunit.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test

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failure.

`b` = Switching module (SM) number.

`c` = PSU number.

`d` = Shelf number.

`e` = Protocol handler number.

`f` = Number of the diagnostic phase to be run or the lower limit of a range of phases.

`g` = Upper limit of a range of phases.

`h` = Repeat count. Number of times the test is to be repeated. Default (1 - 32,767).

`i` = The PSUCOM shelf to be diagnosed. If SHELF is not specified, diagnostics will be performed on all shelves.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the DGN:PSU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`DGN:PSU`

MCC Display Page(s):

PSU Shelf
PSU Network

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DGN:QGP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnosis of a quad-link packet switch (QLPS) gateway processor (QGP) to determine whether it is in satisfactory working order. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Note 1: If the unit is not OOS, the system will first remove the unit conditionally.

Note 2: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

```
DGN:QGP=a-b[,RAW][,RPT[=c]][,UCL][,TLP][,PH=d&&e][,GROW];
```

3. EXPLANATION OF MESSAGE

`GROW` = Run diagnostics on a QGP in the GROW state. If the QGP is GROW, this option must be input to perform the diagnostic.

`RAW` = Print data from raw data test failure.

`RPT` = Repeat the diagnostic '`c`' times.

`TLP` = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

`UCL` = Execute diagnostic unconditionally.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Number of times the diagnostic is to be repeated. The default and maximum is 32767 times.

`d` = Phase (PH) number or lower limit of a range of phase numbers.

`e` = Upper limit of a range of phase numbers.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid but the request could

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not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. The DGN:QGP output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:QGP
OP:DMQ-CM-SM
STP:QGP
```

Output Message(s):

```
DGN:QGP
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

MCC Display Page(s):

1241/1251 (MSGS COMMUNITIES 0-1, 8-9)
1380/1381 (QLPS NETWORK 0/1 STATUS)

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DGN:QLPS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnosis of a quad-link packet switch (QLPS) to determine whether it is in satisfactory working order. Completion of this input message leaves the unit in the out-of-service (OOS) state.
Note: If the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
DGN:QLPS=a-b[,RAW][,GROW][,UCL][,RPT[=c]][,TLP][,PH=d&&e]
[,HELPER=f];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment. Run diagnostics on an QLPS in the GROW state. If the QLPS is GROW, this option must be input to perform the diagnostic. Also allows access to QGPs in the GROW state that are connected to the QLPS using QGLs.

`RAW` = Print data from raw data test failure.

`RPT` = Repeat the diagnostic '`c`' times.

`TLP` = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

`UCL` = Execute tests unconditionally and print test failures rather than stopping after the first test failure.

`a` = Office network timing and control (ONTC) side number.

`b` = QLPS network number.

`c` = Number of times the diagnostic is to be repeated. Maximum and default is 32767 times.

`d` = Phase (PH) number or lower limit of a range of phase numbers.

`e` = Upper limit of a range of phase numbers.

`f` = Foundation peripheral controller (FPC) side number to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used. This option is not applicable for communication module 3 (CM3).

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid but the request could

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not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. The DGN:QLPS output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:QLPS
OP:DMQ-CM-SM
STP:QLPS
```

Output Message(s):

```
DGN:QLPS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

MCC Display Page(s):

1209 (ONTC 0 & 1)
1380/1381 (QLPS NETWORK 0/1 STATUS)

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DGN:RAF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Removes and diagnoses a recorded announcement function (RAF) unit to determine whether it is in satisfactory working order. The unit is left out-of-service (OOS).

2. FORMAT

```
DGN:RAF=a-b[,RAW][,UCL][,RPT[=c]][,GROWTH][,PH={d|d&&e}][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROWTH` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`RPT` = Repeat test option.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number.

`b` = RAF unit number.

`c` = The number of times the test is to be repeated. If '`c`' is not specified, the test will be repeated 32,767 times.

`d` = Diagnostic phase to be performed. If '`d`' is specified as a single phase, only that phase will be performed. If '`d`' is specified as a range, '`d`' will be the first phase in that range to be performed.

`e` = The last diagnostic phase in the range between and including '`d`' and '`e`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the DGN:RAF output message.

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RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

RST:RAF

Output Message(s):

DGN:RAF

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DGN:RAU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM) alarm (RAU) circuit be diagnosed to determine if it is in working order.

2. FORMAT

```
DGN:RAU=a[,RAW][,UCL][,RPT[=b]][,GROW][,PH=c[&&d]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw data from test failure.

`TLP` = Print the ordered pack list if diagnostic fails.

`UCL` = Unconditionally execute.

`a` = Switching module (SM) number.

`b` = Repeat the test '`b`' times. If '`b`' is not specified, the test will be repeated 32,767 times.

`c` = Number of the diagnostic phase(s) to be run.

`d` = Last phase of the range of phases to be run.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.
`PF` = Printout follows. Followed by the DGN:RAU output message.

Observe the following at the remote site:

AUDIBLE	VISUAL	TIME
CRITICAL	CRITICAL + TIP	5 sec
CRITICAL	STAND-ALONE + TIP	5 sec
MAJOR	MAJOR + TIP	5 sec
MINOR	MINOT + TIP	5 sec

TIP = Test in progress.

5. REFERENCES

Output Message(s):

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DGN:RAU

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DGN:RCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a diagnosis of a remote clock (RCLK) side. Valid value(s):

- the remote clock (RCLK)
- the remote clock cross couple (RCXC)
- the remote clock oscillator (RCOSC)
- the mate remote clock oscillator cross couple (RCOXC)
- all the equipped remote clock references (RCREFs)

2. FORMAT

```
DGN:RCLK=a-b[,RAW][,UCL][,RPT[=c]][,GROW] [,PH=d[&&e]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw data from test failure.

`TLP` = Print the ordered pack list if diagnostic fails.

`UCL` = Unconditionally execute and print all test failures. Diagnostic will continue past all non-fatal errors.

Note: TLP and UCL cannot be used together.

`a` = Switching module (SM) number.

`b` = RCLK side.

`c` = Repeat the test '`c`' times. If '`c`' is not specified, the test will be repeated 32767 times.

`d` = Run phase '`d`'.

`d-e` = Run phase '`d`' through '`e`'.

4. SYSTEM RESPONSE

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NG No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. The DGN:RCLK output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

DGN:RCLK

MCC Display Page(s):

1170 (RSM RCLK)

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DGN:RDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM) digital facilities interface (RDFI) circuit be diagnosed to determine if it is in working order.

2. FORMAT

```
DGN:RDFI=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw data from test failure.

`TLP` = Print the ordered pack list if diagnostic fails.

`UCL` = Unconditionally execute.

`a` = Switching module number.

`b` = Digital line and trunk unit (DLTU) number.

`c` = RDFI number.

`d` = Number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Number of the diagnostic phase(s) to be run.

`f` = Last phase of the range of phases to be run.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the DGN:RDFI output message.

5. REFERENCES

Output Message(s):

`DGN:RDFI`

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DGN:RLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM) remote link interface (RLI) circuit be diagnosed to determine if it is in working order.

2. FORMAT

```
DGN:RLI=a-b[,RAW][,UCL][,RPT[=c]][,GROW][,PH=d[&&e]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw data from test failure.

`TLP` = Print the ordered pack list if diagnostic fails.

`UCL` = Unconditionally execute.

`a` = Switching module number.

`b` = RLI number.

`c` = The number of times the test is to be repeated. If '`c`' is not specified, the test will be repeated 32,767 times.

`d` = Number of the diagnostic phase(s) to be run.

`e` = Last phase in the range of phases to be run.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the DGN:RLI output message.

5. REFERENCES

Output Message(s):

`DGN:RLI`

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DGN:RPCN

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics of the specified ring peripheral controller node (RPCN). Four sequential system actions are performed in response to this input request.

A = The RPCN is removed from service following the rules for the RMV:RPCN input message.

B = If the resultant RPCN major state is out-of-service (OOS), growth (GROW), offline (OFL), standby (STBY), or unavailable (UNAV), an attempt is made to isolate the RPCN. For other major states, the diagnostic is aborted by the diagnostic monitor (DIAMON).

C = The specified (or default) diagnostic phases are run.

D = If the RPCN was in the active ring before the start of the diagnostics and was successfully isolated (in 2 above), an attempt is made at the conclusion of the diagnostic to include the RPCN back into the active ring. Otherwise the node is left in its original ring configuration state. The RPCN remains in the OOS, GROW, OFL, STBY, or UNAV state.

2. FORMAT

```
DGN:RPCNa=0[:RPT=b][,RAW][,UCL][:PH=c[&&d]][,CU=e][,TLP];
```

3. EXPLANATION OF MESSAGE

`CU` = Helper control unit.

`PH` = The phase or phases to be run in the diagnostic.

`RAW` = Print the diagnostic results of every phase. The default is to print the results of the first five failures of each phase.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. The TLP generates a list of suspected faulty equipment.

`UCL` = Execute unconditionally.
Note: This option overrides early terminations but does not override a forced early termination.

`a` Ring node group number.

`b` Number of times the diagnostic is to be repeated (default is 1).

NOTE: This option does not override early termination. UCL should also be specified if the diagnostic is arranged to terminate early.

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c = Phase number or lower limit of a range of phase numbers to be executed.

d = Upper limit of a range of phase numbers.

NOTE: If no phases are specified, all automatic phases are run.

e = Off-line control unit (CU) required as a helper unit when demand phase 14 is specified.

NOTE: The helper CU must be out-of-service and all tests passed (ATP) before it can be used as a helper.

4. SYSTEM RESPONSE

PF = Printout follows. The DGN:RPCN output message follows.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:RPCN
```

Output Message(s):

```
ANALY:TLPFILE
DGN:RPCN
OP:DMQ
RMV:RPCN
```

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)

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DGN:RRCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK) to determine whether it is in satisfactory working order. If the circuit is in service, it is conditionally removed from service and diagnosed. The circuit is left out of service (OOS) at the end of the diagnostic regardless of the result.

2. FORMAT

```
DGN:RRCLK=a-b-c[,PH=d[&&e]][,RPT[=f]] [,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = RISLU number.

`c` = RRCLK side.

`d` = Perform diagnostics phase (PH) '`d`' only.

`e` = Perform all diagnostics phases between and including '`d`' and '`e`'.

`f` = Repeat the test (RPT) '`f`' times. If '`f`' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
-            CONFLICT WITH UNIT STATE
-            SM DOES NOT EXIST
-            SM UNEQUIPPED
-            UNIT DOES NOT EXIST
```

`PF` = Printout follows. The DGN:RRCLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

EX:RRCLK

Output Message(s):

DGN:RRCLK

MCC Display Page(s):

(RISLU DLTU)

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DGN:RVPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the revertive pulsing transceiver (RVPT) be diagnosed to determine whether it is in satisfactory working order. The circuit is left out of service when the testing is completed.

2. FORMAT

```
DGN:RVPT=a-b-c-d[,RAW][,UCL][,GROW][,RPT[=e]][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw data from test failure.

`TLP` = Print the ordered pack list.

`UCL` = Perform all phases in the specified or implied range and print all test failures.

`a` = Switching module number.

`b` = Unit number.

`c` = Service group.

`d` = Circuit number.

`e` = Repeat the test '`e`' times. If '`e`' is not specified, the test will be repeated 32,767 times. If RPT is not specified, it runs once.

`f` = Perform diagnostic phase '`f`' only.

`g` = Perform all diagnostic phases between and including '`f`' and '`g`'.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:RVPT output message.

5. REFERENCES

Input Message(s):

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```
RST:RVPT
```

Output Message(s):

```
DGN:RVPT
```

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DGN:SAS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Removes and diagnoses a service announcement system (SAS) unit to determine whether it is in satisfactory working order. The unit is left out-of-service (OOS).

2. FORMAT

```
DGN:SAS=a-b[,RAW][,UCL][,RPT[=c]][,GROW][,PH=d[&&e]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally executes. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of times the test is to be repeated. If '`c`' is not specified, the test will be repeated 32,767 times.

`d` = Number of the diagnostic phase(s) to be performed. If '`d`' is specified as a single phase, only that phase will be performed. If '`d`' is specified as a range, '`d`' will be the first phase in that range to be performed.

`e` = Number of the last diagnostic phase in the range between and including '`d`' and '`e`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:

- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the DGN:SAS output

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message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Output Message(s):

```
DGN:SAS
RST:SAS
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:SCAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a scan point board (SCAN) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:SCAN=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

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Output Message(s):

DGN:SCAN

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(RISLU DLTU)

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DGN:SCSDC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified scanner and signal distributor controller (SCSDC).

Note: The input/output processor (IOP) must be in service before the SCSDC can be diagnosed.

2. FORMAT

```
DGN:SCSDC=a[:[RPT=b][,RAW][,UCL][,REX|,DEX]][:[PH=c[&&d]][,TLP][,CONT]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Diagnoses only the specified controller. Units attached to the specified controller will not be diagnosed.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

`UCL` = Unconditional execution.
Note: This option does not override a forced early termination.

`a` = Member number.

`b` = Number of times the diagnostic is repeated. The maximum is 256. The default is one.

NOTE: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Specifies the first phase to be executed.

`d` = Specifies the last phase to be executed.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:SCSDC output message.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:SCSDC
RST:IOP
RST:SCSDC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:SCSDC
OP:DMQ-CM
OP:DMQ-SM
RST:IOP
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:SDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a *SLC*®96 digital facility interface (SDFI) circuit be removed and diagnosed. The circuit will remain out of service (regardless of the diagnostic's result) until a restore (RST) is requested.

The SDFI interfaces with *SLC*®96 digital carrier line unit (DCLU) service groups. There are 4classes of faults associated with SDFI and DCLU circuits and they are written in the order in which they are most likely to occur:

A = SDFI faults that are detected with SDFI diagnosis.

B = SDFI faults that are only detected by diagnosing a DCLU.

C = DCLU faults that are only detected with a SDFI diagnosis (any SDFI).

D = DCLU faults that are only detected by diagnosing a particular SDFI.

Fault recovery is unable to determine if detected problems are associated with bad SDFI or DCLU circuits. Therefore fault recovery uses an algorithm in determining which circuits (SDFI or DCLU) to diagnose.

2. FORMAT

```
DGN:SDFI=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test results [all tests passed (ATP)/some tests failed (STF)] for each phase executed.

`TLP` = Print the ordered suspect pack list if a test fails.

`UCL` = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

`a` = Switching module (SM) number.

`b` = Digital carrier line unit (DCLU) number.

`c` = SDFI number.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Diagnostic phase to be performed. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified in a range, '`e`' will be the first phase in that range to be

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performed.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. The DGN:SDFI output message follows when the diagnostic is executed.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
EX:SDFI
RMV:SDFI
RST:SDFI
STP:SDFI
```

Output Message(s):

```
DGN:SDFI
```

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DGN:SDLC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified synchronous data link controller (SDLC).

NOTE: The input/output processor (IOP) must be in service before the SDLC can be diagnosed.

2. FORMAT

```
DGN:SDLC=a[:[RPT=b][,RAW][,UCL][,REX|,DEX]][:[PH=c[&&d]][,TLP] [,CONT]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Diagnoses only the specified controller. Units attached to the specified controller will not be diagnosed.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require user interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

`UCL` = Unconditional execution.
Note: This option does not override a forced early termination.

NOTE: The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

`a` = Member number.

`b` = Number of times the diagnostic is repeated. The maximum is 256. The default is one.

NOTE: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Specifies the first phase to be executed.

`d` = Specifies the last phase to be executed.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:SDLC output message.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:SDLC
RST:IOP
RST:SDLC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:SDLC
OP:DMQ-CM
OP:DMQ-SM
RST:IOP
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:SFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

2. FORMAT

```
DGN:SFI=a-b-c-d[,PH=e[&&f]][,RPT [=g]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list if a test fails.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of the phase to be run, or the lower limit of a range of phases.

`f` = The upper limit of a range of phases to be run.

`g` = The number of times the diagnostic phases are to be repeated (1-32676). If variable '`g`' is not specified, the phases will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The DGN:SFI output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
OP:DMQ
RST:SFI
STP:SFI
```

Output Message(s):

```
DGN:SFI
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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DGN:SLIM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a subscriber line instrument measurement (SLIM) board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:SLIM=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SLIM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If variable '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

None.

5. REFERENCES

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Output Message(s):

DGN:SLIM

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(RISLU DLTU)

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DGN:TAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a test and access circuit (TAC) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:TAC=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&&f]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = Diagnostic phase(s) to be performed. If '`e`' is specified as a single phase, only that phase will be performed. If '`e`' is specified as a range, '`e`' will be the first phase in that range to be performed.

`f` = The last diagnostic phase in the range between and including '`e`' and '`f`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. Input request not valid.

`PF` = Printout follows. Followed by the DGN:TAC output message.

5. REFERENCES

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Output Message(s):

```
DGN:TAC
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:TEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk equipment number (TEN) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:TEN=a-b-c-d-e[,RAW][,UCL][,RPT[=f]][,GROW][,PH=g[&&h]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = TEN unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = The number of times the test is to be repeated. If '`f`' is not specified, the test will be repeated 32,767 times.

`g` = Diagnostic phase(s) to be performed. If '`g`' is specified as a single phase, only that phase will be performed. If '`g`' is specified as a range, '`g`' will be the first phase in that range to be performed.

`h` = The last diagnostic phase in the range between and including '`g`' and '`h`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. Input request not valid.

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`PF` = Printout follows. Followed by the DGN:TEN output message.

5. REFERENCES

Output Message(s):

`DGN:TEN`

Input Appendix(es):

`APP:RANGES`

DGN:TMS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the time multiplex switch (TMS) in the specified office network and timing complex (ONTC) be diagnosed. This command is not applicable in Communication Module 3 (CM3) office.

2. FORMAT

```
DGN:TMS=a[,RAW][,UCL][,RPT[=b]][,PH=c[&&d]][,TLP][,HELPER=e]
[,GROW];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list if a test fails.

`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`a` = TMS side.

`b` = Number of times the diagnostic is to be repeated (RPT) (default 32,767).

`c` = The number of the phase (PH) to be executed, or the lower limit in a range of phases.

`d` = Upper limit in a range of phases.

`e` = The number of the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the DGN:TMS output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

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```
ABT:TMS
STP:TMS
```

Output Message(s):

```
DGN:TMS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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DGN:TMSFP

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics for the time multiplexed switch (TMS) fabric pair (TMSFP) on the specified office network and timing complex (ONTC). Completion of this input message leaves the unit in the out-of-service (OOS) state.

If the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
DGN:TMSFP=a-b,[TMSLNK=c[&&d]][,RAW][,UCL][,RPT[=e]][,PH=f[&&g]]
[,TLP][,GROW];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list if a test fails.

`UCL` = Continue to print all test results unconditionally rather than just printing the first failing test.

`a` = ONTC side that the TMSFP is on.

`b` = TMS fabric pair number.

`c` = TMS link number to start diagnostic from. Used only with diagnostic phases 4 and 5. If it's the only range limit specified then it's the only TMS link to be diagnosed. If neither range limit specified then the whole range of 4-371 is implied.

`d` = Ending number of the TMSLNK range to be diagnosed.

`e` = The number of times the test is to be repeated (RPT). If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = The number of the phase (PH) to be executed, or the lower limit in a range of phases.

`g` = Upper limit in a range of phases.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

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`PF` = Printout follows. A DGN:TMSFP output message will follow in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:TMSFP
OP:CFGSTAT
OP:DMQ-CM-SM
STP:TMSFP
```

Output Message(s):

```
DGN:TMSFP
OP:CFGSTAT
OP:DMQ-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1212 TMS FABRIC PAIR STATUS
1214 QLPS SUMMARY
1220,b TMS LINK SUMMARY (where b=TMSFP number)

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DGN:TMUX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

2. FORMAT

```
DGN:TMUX=a-b-c-d[,PH=e[&&f]][,RPT [=g]][,GROW][,RAW][,TLP][,UCL];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allows access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list if a test fails.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of the phase to be run, or the lower limit of a range of phases.

`f` = The upper limit of a range of phases to be run.

`g` = The number of times the diagnostic phases are to be repeated (1-32676). If variable '`g`' is not specified, the phases will be repeated 32,767 times.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The DGN:TMUX output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
OP:DMQ
RST:TMUX
STP:TMUX
```

Output Message(s):

```
DGN:TMUX
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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DGN:TTFCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a transmission test facility common (TTFCOM) circuit be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:TTFCOM=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:TTFCOM output

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message.

5. REFERENCES

Output Message(s):

DGN:TTFCOM

Input Appendix(es):

APP:RANGES

DGN:TTYC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified teletypewriter controller (TTYC).

Note: The input/output processor (IOP) must be in service before the TTYC can be diagnosed.

2. FORMAT

```
DGN:TTYC=a[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][,PH=c[&&d]][,TLP]
[,CONT];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

`DEX` = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`REX` = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

`UCL` = Unconditional execution.

NOTE: This option does not override a forced early termination.

`a` = Member number.

`b` = Number of times the diagnostic is to be repeated. The maximum is 256. The default is one.

NOTE: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

`c` = Specifies the first phase to be executed.

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`d` = Specifies the last phase to be executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:TTYC output message.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RMV:TTYC
RST:TTYC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:TTYC
OP:DMQ-CM
OP:DMQ-SM
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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DGN:TUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk unit channel board (TUCHBD) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:TUCHBD=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:TUCHBD output

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message.

5. REFERENCES

Output Message(s):

DGN:TUCHBD

Input Appendix(es):

APP:RANGES

DGN:UCONF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a universal conference (UCONF) circuit board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

```
DGN:UCONF=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital service circuit unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:UCONF output message.

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5. REFERENCES

Output Message(s):

```
DGN:UCONF
```

Input Appendix(es):

```
APP:RANGES
```

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DGN:UTD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a universal tone decoder (UTD) board be diagnosed to determine if it is in satisfactory working order.

2. FORMAT

```
DGN:UTD=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. Input request not valid.

`PF` = Printout follows. Followed by the DGN:UTD output message.

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5. REFERENCES

Output Message(s):

```
DGN:UTD
```

Input Appendix(es):

```
APP:RANGES
```

DGN:UTG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a universal tone generator (UTG) board be diagnosed to determine if it is in satisfactory working order.

2. FORMAT

```
DGN:UTG=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&&g]][,TLP];
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of times the test is to be repeated. If '`e`' is not specified, the test will be repeated 32,767 times.

`f` = Diagnostic phase(s) to be performed. If '`f`' is specified as a single phase, only that phase will be performed. If '`f`' is specified as a range, '`f`' will be the first phase in that range to be performed.

`g` = The last diagnostic phase in the range between and including '`f`' and '`g`' to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the DGN:UTG output message.

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5. REFERENCES

Output Message(s):

```
DGN:UTG
```

Input Appendix(es):

```
APP:RANGES
```

24. DISC

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DISC:WSLINE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the line that is associated with the specified trunk and line work station (TLWS) test position (TP) be disconnected. The association was accomplished earlier using a CONN:WSLINE or CONN:WSIC input message. If tests are ongoing, they are automatically cancelled.

2. FORMAT

```
DISC:WSLINE,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

`OK` = Good. The line was released.

5. REFERENCES

Input Message(s):

`CONN:WSIC`
`CONN:WSLINE`
`SET:WSPOS`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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DISC:WSPHONE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the trunk and line work station (TLWS) talk-and-monitor (T&M) phone be disconnected from the indicated test position (TP). A TLWS TP must have already been selected using the SET:WSPOS input message.

2. FORMAT

```
DISC:WSPHONE,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

`OK` = Good. The T&M phone was released.

5. REFERENCES

Input Message(s):

```
CONN:WSPHONE
SET:WSPHONE
SET:WSPOS
TST:WSMEAS
TST:WSMET
TST:WSMNTR
TST:WSSEND
TST:WSSUPV
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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DISC:WSPORT-A

Software Release: 5E15 - 5E16(1)
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the port (line or trunk) that is associated with the specified trunk and line work station (TLWS) test position (TP) be disconnected. The association was accomplished earlier using a CONN:WSLINE, CONN:WSPORT, CONN:WSTRK or CONN:WSIC input message. If tests are ongoing, they are automatically cancelled.

2. FORMAT

```
DISC:WSPORT,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. The port was released.

5. REFERENCES

Input Message(s):

```
CONN:WSIC
CONN:WSLINE
CONN:WSPORT
CONN:WSTRK
SET:WSPOS
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

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160 (TRUNK & LINE MAINT)

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DISC:WSPORT-B

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the port [line, trunk or signaling data link (SDL)] that is associated with the specified trunk and line work station (TLWS) test position (TP) be disconnected. The association was accomplished earlier using a CONN:WSLINE, CONN:WSPORT, CONN:WSTRK or CONN:WSIC input message. If tests are ongoing, they are automatically cancelled.

2. FORMAT

```
DISC:WSPORT,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. The port was released.

5. REFERENCES

Input Message(s):

`CONN:WSIC`
`CONN:WSLINE`
`CONN:WSPORT`
`CONN:WSTRK`
`SET:WSPOS`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
160 TRUNK & LINE MAINT

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DISC:WSTRK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the trunk that was associated with the specified trunk and line work station (TLWS) test position (TP) using an earlier CONN:WSTRK or CONN:WSIC input message be released. If tests are occurring at this TP, they are automatically cancelled.

2. FORMAT

```
DISC:WSTRK,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. The trunk was released.

5. REFERENCES

Input Message(s):

`CONN:WSIC`
`CONN:WSTRK`
`SET:WSPOS`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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25. DUMP

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DUMP:ACSR

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that automatic customer station rearrangement (ACSR) recent change log and error data files be printed.

2. FORMAT

```
DUMP:ACSR:DATA=a,FILE=b,DEVICE=c;
```

3. EXPLANATION OF MESSAGE

`a` = Data file type. Valid value(s):

`LOG`	= ACSR recent change log file.
`ERR`	= ACSR recent change error data file.

`b` = Age of log or error data files in days. Valid value(s):

`1`	= Current day's log or error data file.
`2`	= Yesterday's log or error data file.
`3`	= Log and error data files from two days ago.
`ALL`	= All log or error data files.

`c` = Output device name. Valid value(s):

`TERM`	= Output device is the input terminal.
`ROP`	= Output device is the receive-only printer (ROP).
`ALL`	= Output devices are the ROP and the input terminal.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DUMP:ACSR output message.

5. REFERENCES

Output Message(s):

`DUMP:ACSR`

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DUMP:ADDR

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the contents of a specified range of virtual addresses in the administrative module (AM) main memory be dumped as an action associated with a breakpoint.

The range is specified by two addresses or an address and a length. The length defaults to a value of one. If only one address is given, indirect addressing may be specified. In this case, the first offset listed is added to the contents of the given address and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value zero uses the virtual address found in the location specified in the DUMP:ADDR input message for the dump location.

2. FORMAT

```
DUMP:ADDR={a&&b|a}[,OFF=c][,{L=d|NL=e}][:WORD]!
```

3. EXPLANATION OF MESSAGE

`WORD` = Indicates that all addresses, offsets, and lengths are to be interpreted as words, including addresses derived in address chains. If this option is omitted, they are assumed to be byte values.

`a` = Virtual address or the lower limit of a range of virtual addresses of the dump in decimal, binary, octal, or hexadecimal notation. Assumed to be a byte address unless the WORD option is used.

`b` = Upper limit of a range of virtual addresses. Assumed to be a byte address unless the WORD option is used.

`c` = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is used.

`d` = The length of the dump, assumed to be in bytes unless the WORD option is used. Maximum 128 bytes or 32 words. Default is one, unless a range is explicitly specified. The actual range of addresses dumped will be rounded out to word address boundaries.

`e` = Indicator that the operation should use the locations beginning '`e`' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitation are the same as for the L option.

4. SYSTEM RESPONSE

`IP` = In progress. The input message has been added to the WHEN action list.

`RL` = Retry later. The system is in an overload condition.

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5. REFERENCES

Input Message(s):

```
DUMP:PID
DUMP:PMEM
DUMP:REG
DUMP:UID
WHEN:PID
WHEN:UID
```

Output Message(s):

```
DUMP:ADDR
```

DUMP:ATDTA-A

Software Release: 5E15 - 5E17(1)
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Dumps the entries in the automatic trunk test scheduler (ATTS) schedule database which relate to a specified ATTS test schedule.

2. FORMAT

```
DUMP:ATDTA[,SCHED=a][,WEEK=b][,DAY=c][,TGID=d];
```

3. EXPLANATION OF MESSAGE

`a` = The number of the ATTS test schedule whose test session entries are to be output (1 - 20).

`b` = The number of the ATTS schedule week for which test session entries are to be selected for dumping (1 - 8).

`c` = The number of the day in the week for which test session entries are to be selected for dumping (1 - 7, where `1` corresponds to Monday).

`d` = The number of the trunk group associated with test session entries which are to be selected for dumping (1 - maximum TGs per office).

- If neither variables '`b`', '`c`', nor '`d`' are specified, then all test session entries for the specified ATTS test schedule are dumped.
- If variable '`d`' is specified, then only test session entries related to the specified trunk group are dumped, according to the setting of parameters '`b`' and '`c`'.
- If variable '`b`' is specified and variable '`c`' is not, then only test session entries related to any day of the given schedule week are dumped.
- If variable '`c`' is specified and variable '`b`' is not, then only test session entries related to the given day of the schedule week which is currently in effect are dumped.
- If variables '`b`' and '`c`' are both specified, then only test session entries related to the given day of the given schedule week are dumped.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the DUMP:ATDTA output message.

5. REFERENCES

Input Message(s):

```
DUMP:ATLOG
DUMP:ATPRM
```

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```
OP:ATTS
ST:ATTS
STP:ATTS
```

Output Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS
```

Other Manual(s):
Where 'x' is the release-specific version of the specified manual.

235-100-125	*System Description*
235-105-210	*Routine Operations and Maintenance*
235-118-251	*Recent Change Procedures*
235-118-25x	*Recent Change Reference*

RC/V View(s):

14.9	ATTS TEST SESSION SCHEDULE DATA
14.10	ATTS TEST SCHEDULE PARAMETER

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DUMP:ATDTA-B

Software Release: 5E18(1) and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Dumps the entries in the automatic trunk test scheduler (ATTS) schedule database which relate to a specified ATTS test schedule.

2. FORMAT

```
DUMP:ATDTA[,SCHED=a][,WEEK=b][,DAY=c][,TGID=d];
```

3. EXPLANATION OF MESSAGE

`a` = The number of the ATTS test schedule whose test session entries are to be output (1 - 20).

`b` = The number of the ATTS schedule week for which test session entries are to be selected for dumping (1 - 8).

`c` = The number of the day in the week for which test session entries are to be selected for dumping (1 - 7, where `1` corresponds to Monday).

`d` = The number of the trunk group associated with test session entries which are to be selected for dumping (1 - maximum TGs per office).

- If neither variables '`b`', '`c`', nor '`d`' are specified, then all test session entries for the specified ATTS test schedule are dumped.
- If variable '`d`' is specified, then only test session entries related to the specified trunk group are dumped, according to the setting of parameters '`b`' and '`c`'.
- If variable '`b`' is specified and variable '`c`' is not, then only test session entries related to any day of the given schedule week are dumped.
- If variable '`c`' is specified and variable '`b`' is not, then only test session entries related to the given day of the schedule week which is currently in effect are dumped.
- If variables '`b`' and '`c`' are both specified, then only test session entries related to the given day of the given schedule week are dumped.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the DUMP:ATDTA output message.

`RL` = Retry later. May also include:

`- DATA NOT DEFINED` = Indicate no ATTS TEST SESSION SCHEDULE DATA defined in form RATSDTA. Prior to define the data in RATSDTA, schedule parameters must be predefined in form ATTS TEST SESSION SCHEDULE PARAMETERS (RATSPRM).

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5. REFERENCES

Input Message(s):

```
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS
```

Output Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS
```

Other Manual(s):
Where 'x' is the release-specific version of the specified manual.

235-100-125	*System Description*
235-105-210	*Routine Operations and Maintenance*
235-118-251	*Recent Change Procedures*
235-118-25x	*Recent Change Reference*

RC/V View(s):

14.9	ATTS TEST SESSION SCHEDULE DATA
14.10	ATTS TEST SCHEDULE PARAMETER

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DUMP:ATLOG

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Retrieves scheduled trunk test data from automatic trunk test scheduler (ATTS) log files. Searching can be limited to: trunk tests defined in a particular schedule, or across all schedules (variable 'a'); trunk tests executed on a particular schedule week, or during any schedule week (variable 'b'); trunk tests executed on a particular schedule day, or during any schedule day (variable 'c'); trunk test data for members of a particular trunk group or for members of all trunk groups (variable 'd'); and/or passed, failed, aborted, non-passing, or all trunk test results (variable 'e').

2. FORMAT

```
DUMP:ATLOG[,SCHED=a][,WEEK=b][,DAY=c][,TGID=d][,STAT=e];
```

3. EXPLANATION OF MESSAGE

a = Schedule number (1 - 20). If this parameter is defaulted, all schedules are searched for test data conforming to the other parameters.

b = Schedule week number (1 - 8).

c = Schedule day number (1 - 7).

d = Trunk group identifier (1 - maximum TGs per office).

e = Status type. Valid value(s):

- A = Print aborted trunk test results only.
- F = Print failed trunk test results only. This is the default value.
- FA = Print failed or aborted (that is, non-passing) trunk test results only.
- FU = Print failed and/or unavailable trunk test results only.
- P = Print passed trunk test results only.
- PFA = Print all trunk test results.

NOTE: If STAT is not specified on the command line, the default is to print failed trunk test results only. If there are no failed trunk test results, the following message will be seen "NO TEST RESULTS MATCH INPUT PARAMETERS".

4. SYSTEM RESPONSE

ATTS retrieves the requested information from the log files and outputs the formatted test result data in tabular

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form, if any logged test result data matches the input parameters.

`NG` = No good. Valid value(s):
`- INSUFFICIENT RESOURCES`

`PF` = Printout follows. The request has been accepted. Followed by the DUMP:ATLOG output message.

5. REFERENCES

Input Message(s):

`DUMP:ATDTA`
`DUMP:ATLOG`
`DUMP:ATPRM`
`OP:ATTS`
`ST:ATTS`
`STP:ATTS`

Output Message(s):

`DUMP:ATDTA`
`DUMP:ATLOG`
`DUMP:ATPRM`
`OP:ATTS`
`REPT:ATTS`
`ST:ATTS`
`STP:ATTS`

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-118-251 *Recent Change Procedures*

235-118-25x *Recent Change Reference*

235-105-210 *Routine Operations and Maintenance*

235-100-125 *System Description*

RC/V View(s):

14.9 (ATTS TEST SESSION SCHEDULE DATA)
14.10 (ATTS TEST SCHEDULE PARAMETER)

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DUMP:ATPRM

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Dumps the entries in the automatic trunk test scheduler (ATTS) parameters database which relate to a specified ATTS test schedule.

2. FORMAT

```
DUMP:ATPRM,SCHED=a;
```

3. EXPLANATION OF MESSAGE

`a` = The number of the ATTS test schedule whose parameters are to be dumped (1 - 20).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the DUMP:ATPRM output message.

5. REFERENCES

Input Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS
```

Output Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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235-105-210 *Routine Operations and Maintenance*
235-100-125 *System Description*

RC/V View(s):

14.9 (ATTS TEST SESSION SCHEDULE DATA)
14.10 (ATTS TEST SCHEDULE PARAMETER)

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DUMP:BKTAPE-A

Software Release: 5E15 only
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Displays the contents of the multi-volume digital audio tape (DAT) logical volume headers and optionally provides an estimate of how full the tape is.

2. FORMAT

```
DUMP:BKTAPE:TD="a" [,TPSIZE=b];
```

3. EXPLANATION OF MESSAGE

`a` = Device filename of the DAT drive. Refer to the User Guidelines for definitions and examples of tape device names.

`b` = Length in meters of the DAT mounted on the specified drive. The length is used to estimate how full the tape is. Valid lengths are 30 through 90 meters.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a DUMP:BKTAPE output message.

5. REFERENCES

Input Message(s):

```
COPY:BKDISK
COPY:BKTAPE
```

Output Message(s):

```
DUMP:BKTAPE
```

Output Message(s):

```
DUMP:BKTAPE
```

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DUMP:BKTAPE-B

Software Release: 5E16(1) and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Displays the contents of the multi-volume digital audio tape (DAT) logical volume headers and optionally provides an estimate of how full the tape is.

2. FORMAT

```
DUMP:BKTAPE:TD="a" [,TPSIZE=b];
```

3. EXPLANATION OF MESSAGE

`a` = Device filename of the DAT drive. Refer to the User Guidelines for definitions and examples of tape device names.

`b` = Length in meters of the DAT mounted on the specified drive. The length is used to estimate how full the tape is. Valid lengths are 60, 90, 120, 125, 150, and 170 meters.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a DUMP:BKTAPE output message.

5. REFERENCES

Input Message(s):

```
COPY:BKDISK
COPY:BKTAPE
```

Output Message(s):

```
DUMP:BKTAPE
```

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DUMP:CACHE

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of the offline cache into administrative module (AM) processor main memory. The portions of cache dumped are the ones which map to the kernel and interrupt stacks. The input message will not be accepted if the other control unit (CU) is in the standby state.

The cache (1Kbytes) is placed at virtual address 0x80000 for the interrupt stack portion and at virtual address 0x6a0000 for the kernel stack. In the case of the kernel stack, the address dumped to will not correspond to the actual start of the kernel stack. This offset is necessary to preserve the portions of the kernel stack which are not resident in the cache but which do map to the address range used for the cache kernel stack. Whether a particular stack entry is in cache or main memory is dependent upon whether the hardware is present and enabled, and the state of the ISTK bit in the program status word (PSW) of the running process. The reconstruction of the kernel stack (both cache and main memory) is left to the user.

2. FORMAT

```
DUMP:CACHE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. Could not access or reserve the unit control block (UCB) record of the mate CU, or the mate CU was not out of service.

`PF` = Printout follows. Followed by the DUMP:CACHE output message.

5. REFERENCES

Output Message(s):

```
DUMP:CACHE
```

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DUMP:F-ALL

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the contents of an ASCII file be dumped.

2. FORMAT

```
DUMP:FILE,ALL,FN="a"[,OPL=b];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file.

NOTE: Dumps of directories and/or non-ASCII files may produce unpredictable output.

`b` = Number of segments output, specified in decimal. Default is 10 segments. Maximum number of segments is 999. Each segment has a maximum size of 1000 bytes or 20 lines.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DUMP:F-ALL output message.

5. REFERENCES

Input Message(s):

`DUMP:F-PARTL`

Output Message(s):

`DUMP:F-ALL`
`DUMP:F-PARTL`

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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DUMP:F-FORMAT

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of a file in the specified format. If no format is given, the dump is printed in octal.

2. FORMAT

```
DUMP:FILE,FORMAT, FN="a" [,b] [,OPL=c];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file. The pathname is a list of the names of each directory leading to the file, and ends with the name of the specific file. Each name begins with a slash, and the entire pathname is enclosed in quotation marks. For example, "usr/a1/ssw/test" means that /usr/a1/ssw/ represents the list of directory names and /test represents the file name.

`b` = Specifies the output format (default is octal). Valid value(s):

- `C` = Interprets bytes in ASCII notation.
- `D` = Interprets words in decimal notation.
- `O` = Interprets words in octal notation.
- `X` = Interprets words in hexadecimal notation.

`c` = Number of segments output, specified in decimal. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Default is 10 segments. Each segment has a maximum size of 1000 bytes or 20 lines.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DUMP:F-FORMAT output message.

5. REFERENCES

Input Message(s):

```
DUMP:F-ALL
DUMP:F-PARTL
```

Output Message(s):

```
DUMP:F-ALL
DUMP:F-FORMAT
DUMP:F-PARTL
```

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Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

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DUMP:F-PARTL

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Prints one or more lines of an American standard code for information interchange (ASCII) file.

NOTE: Specifying a non-ASCII file may produce unpredictable output.

2. FORMAT

```
DUMP:FILE,PARTL,FN="a",LINE=b[&&c];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file.

`b` = Line number to be printed or first line of a range, specified in decimal. If the line number specified (limited to 1 through 131072) is larger than the number of lines in the file, the last line of the file is assumed.

`c` = Last line number of a range (limited to 1 through 131072). If larger then the number of lines in the file, the last line of the file is assumed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DUMP:F-PARTL output message.

5. REFERENCES

Input Message(s):

```
DUMP:F-ALL
```

Output Message(s):

```
DUMP:F-ALL
DUMP:F-FORMAT
DUMP:F-PARTL
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

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DUMP:KERN

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the contents of a specified range of virtual addresses in the administrative module (AM) kernel be dumped as an immediate action.

The range is specified by two addresses or an address and a length. The length defaults to a value of 1. If only one address is given, indirect addressing may be specified. In this case, the first offset listed is added to the content of the given address and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the location specified in the DUMP:KERN message for the dump location.

2. FORMAT

```
DUMP:KERN={a&&b|a[,OFF=c][,{L=d|NL=e}]};
```

3. EXPLANATION OF MESSAGE

`a` = Virtual byte address of the dump or the lower limit of a range of virtual byte addresses, in decimal, octal, or hexadecimal.

`b` = Upper limit of a range of virtual byte addresses of the dump.

`c` = A single offset or list of up to 5 offsets. Omission of the keyword implies no indirect addressing.

`d` = The length of the dump, assumed to be in bytes. The maximum is 128 bytes. The default is 1, unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries.

`e` = Indicator that the operation should use the locations beginning '`e`' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the '`d`' option.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`PF` = Printout follows.

`RL` = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

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```
DUMP:PID
DUMP:PMEM
DUMP:REG
DUMP:UID
WHEN:PID
WHEN:UID
```

Output Message(s):

```
DUMP:ADDR
DUMP:KERN
WHEN:PID
WHEN:UID
```

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DUMP:MHD-BLOCK

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Dumps the contents of a specified single disk block or a range of blocks, in hexadecimal. One disk block contains 512 bytes.

The moving head disk (MHD) does not have to be in the active state for this request to work.

WARNING: Do not input this request at the same time as another request for the same MHD, because errors due to resource limitations may occur.

2. FORMAT

```
DUMP:MHD=a:BLOCK=b[&&c][,DEST={ROP|"d"}];
```

3. EXPLANATION OF MESSAGE

`DEST` = Destination of the output. A maximum of five disk blocks can be directed to the ROP by a single input request. Default is the inputting teletypewriter (TTY).

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Disk block offset from the start of the disk, specified in decimal. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. May be the first block of a range of blocks. Block 0 is the first block of a disk.

`c` = Last block of a range of blocks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Pathname of a file to receive the data. There is no limit on the number of disk blocks that can be directed to a file by a single input request.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DUMP:MHD-BLOCK output message.

5. REFERENCES

Output Message(s):

`DUMP:MHD-BLOCK`

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Input Appendix(es):

APP:RANGES

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DUMP:MHD-DEFECT

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

WARNING: Do not input this request at the same time as another DUMP:MHD or VFY:MHD request because errors may occur.

Dumps defect management information for a moving head disk (MHD).

This message is used to read the defect table from an MHD. The tables specify the location of media defects. This information is used by the MHD's controller to map around defective areas on the media.

- This message should ony be used for disk drives that support defect management otherwise the input message will abort.
- The MHD does not have to be in the active state to execute this message.

If no options are specified, the combined (COMB) defect tables will be output.

2. FORMAT

```
DUMP:MHD=a:DEFECT[:FN="b"|{[,COMB][,MFGR]|,ALL}];
```

3. EXPLANATION OF MESSAGE

`a` = MHD member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Full pathname that specifies the file to which the MFGR defect table will be written.

For a storage module drive (SMD) MHD, the file will contain the manufacturer's defect table data in a format that can be used in a LOAD:MHD-DEFECT input message.

For a small computer system interface (SCSI) MHD, the contents of the file is purely informational and cannot be used as input to the LOAD:MHD-DEFECT input message.

`COMB` = Requests the combined defect table.

For an SMD MHD, this table represents the defect list currently being used by the MHD's controller to map around the defects. The COMB defect table can be updated by using the INIT:MHD input message with the NEW option. The update copies the current MFGR defect table to the COMB defect table.

For a SCSI MHD, this table represents the GROWN defect list and contains only those defects added by the user. This list, in conjunction with the PRIMARY defect list, is used by the MHD's

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controller to map around media defects.

MFGR = Requests the manufacturer's defect table.

For an SMD MHD, this table represents the original defects and defects added by the user. This table is used to update the COMB defect table.

For a SCSI MHD, this table represents the PRIMARY defect list and contains only the original defects. This list in conjunction with the GROWN defect list, is used by the MHD's controller to map around media defects.

ALL = Requests both COMB and MFGR defect tables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:MHD-DEFECT output message.

5. REFERENCES

Input Message(s):

```
INIT:MHD
LOAD:MHD
VFY:MHD
```

Output Message(s):

```
DUMP:MHD-DEFECT
LOAD:MHD-DEFECT
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

(DISK FILE SYSTEM ACCESS)

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DUMP:MHD-VTOC

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

WARNING: Do not input this request at the same time as a VFY:MHD, DUMP:MHD-BLOCK, DUMP:MHD-DEFECT or another DUMP:MHD-VTOC request, because errors may occur.

Formats and prints the contents of a disk pack's volume table of contents (VTOC). The output will only appear on the receive-only printer (ROP). The moving head disk (MHD) does not have to be in the active state for this input message to work.

2. FORMAT

```
DUMP:MHD=a:VTOC[,SORT={B|P}];
```

3. EXPLANATION OF MESSAGE

`SORT` = Specifies the sort algorithm to be used in formatting the output data. Valid value(s):
- `B` = Sort by ascending disk block addresses (default).
- `P` = Sort by ascending logical partition numbers.

Note: Disk packs used in the *UNIX*® RTR operating system must have a VTOC starting at block number zero.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DUMP:MHD-VTOC output message.

5. REFERENCES

Input Message(s):

```
DUMP:MHD-BLOCK
DUMP:MHD-DEFECT
VFY:MHD
```

Output Message(s):

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```
DUMP:MHD-VTOC
```

Input Appendix(es):

```
APP:RANGES
```

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DUMP:NC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a dump of information related to the network clock model 2 (NC2) or model 3 (NC3).

2. FORMAT

```
DUMP:NC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Side of the office network and timing complex (ONTC) that the NC is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Output Message(s):

```
DUMP:NC
DUMP:NC3
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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DUMP:PID

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of the specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified process identifier. This message cannot be used as an action associated with a breakpoint. The range is specified by two addresses or as one address and a length. The length defaults to a value of 1.

If only one address is given, indirect addressing may be specified. In this case, the first offset listed is added to the value of the given address and the result is interpreted as another address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the location specified in the DUMP:PID input message for the dump location.

2. FORMAT

```
DUMP:PID=a,ADDR={b&&c|b[,OFF=d][,{L=e|NL=f}]}[:WORD];
```

3. EXPLANATION OF MESSAGE

`WORD` = Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words including addresses derived in address chains. If this option is omitted, they are assumed to be byte values.

`a` = Process ID of the target process.

`b` = Starting virtual address of the dump in decimal, octal, or hexadecimal notation. Assumed to be a byte address unless the WORD option is used.

`c` = Ending virtual address of the dump. Assumed to be a byte address unless the WORD option is used.

`d` = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is used.

`e` = The length of the dump, assumed to be in bytes unless the WORD option is used. Default=1, unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries.

`f` = Used to indicate that the operation should use the locations beginning '`e`' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the L option.

4. SYSTEM RESPONSE

`NG` = No good. The PID is for a process for which dumps are not permitted.

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PF = Printout follows. Followed by the DUMP:PID output message.

RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM or OP:UMEM:MCH message.

5. REFERENCES

Input Message(s):

```
DUMP:ADDR
DUMP:PMEM
DUMP:REG
DUMP:UID
OP:ST-PROC
```

Output Message(s):

```
DUMP:PID
```

Input Appendix(es):

```
APP:RANGES
```

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DUMP:PMEM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of a specified range of physical addresses in main memory.

The range is specified by two addresses or by one address and an optional byte length count. The default length is 4 bytes.

The output will contain formatted fullwords. If the addresses specified did not describe a set of fullwords, the addresses will be rounded out to fullword boundaries. For example, physical memory addresses X'4041-X'405D (in hexadecimal) would be treated as hexadecimal numbers X'4040-X'405F.

This message may be used either as an immediate input message or in the action list of a WHEN.

2. FORMAT

```
DUMP:PMEM={a&&b|a[,{L=c|NL=d}]}{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Starting (if `L` is used) or ending (if `NL` is used) physical address dump in decimal, octal, or hexadecimal notation. Value will be rounded down to a fullword address.

`b` = Ending physical address for dump in decimal, octal, or hexadecimal notation. Value will be rounded up to the next fullword boundary.

`c` = Indicator that the ending address should be calculated by adding the byte length 'c' to the starting address 'a' and then rounding up to the next fullword boundary.

`d` = Byte length used to calculate the starting address. The byte length '`d`' is subtracted from the ending address '`a`' and then rounded down to a fullword boundary. The address '`a`' is rounded up to the next fullword boundary and is used as the ending address.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`PF` = Printout follows. Followed by the DUMP:PMEM output message.

`RL` = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
DUMP:PID
```

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```
DUMP:UID
WHEN:PID
WHEN:UID
```

Output Message(s):

```
DUMP:PMEM
```

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DUMP:REG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of one or more registers, either as an immediate action, or as an action associated with a breakpoint.

This message can also be used to dump an address range in main memory (by specifying a single register and offsets), but only if the message is part of an action list for a WHEN message.

If offsets are specified, the first offset is added to the contents of the specified register and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value uses the virtual address found in the register for the memory dump location.

Note: Offsets can only be used if the DUMP:REG message is used as an action associated with a breakpoint, since that defines a process address space for memory addressing.

2. FORMAT

```
DUMP:REG=a[,OFF=b][,{L|NL}=c][:WORD]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Single register name or a list of registers to be dumped. Valid value(s):

- `AP` = Argument pointer AP.
- `ATBBGR` = Register used by the ATB miss routine to temporarily store the bi-directional gating register (BGR).
- `ATBPSW` = Register used by the ATB miss routine to temporarily store the program status word (PSW) register.
- `ATBQ` = Register used by the ATB miss routine to temporarily store the '`q`' register.
- `ATBSAR` = Register used by the address translation buffer (ATB) miss routine to temporarily store the store address register (SAR) contents.
- `ATBSCR` = Register used by the ATB miss routine to temporarily store the store control register (SCR) contents.
- `ATBSDR` = Register used by the ATB miss routine to temporarily store the store data register (SDR) content.
- `BGR` = Bi-directional gating register.
- `CAR` = Channel address register.
- `CDR` = Channel data register.
- `ERC` = Error register (ER) clear.
- `FP` = Frame pointer FP.
- `HG` = Reserved register HG.
- `HSR` = Hardware status register.
- `HSRBGC` = Bi-directional gating control bits of the hardware status register (HSR).
- `IM` = Interrupt mask register IM.

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ISC	= IS (interrupt source) register clear.
ISS	= Interrupt source (IS) register set.
PA	= Program address register.
PPR	= Pulse point register.
PSW	= Program status word.
R0	= General register R0.
R1	= General register R1.
R2	= General register R2.
R3	= General register R3.
R4	= General register R4.
R5	= General register R5.
R6	= General register R6.
R7	= General register R7.
R8	= General register R8.
R9	= Argument pointer AP.
R10	= Frame pointer FP.
R11	= Stack pointer SP.
RNULL	= Null register.
RTC	= Real time clock.
SBR0	= Segment base register SBR0.
SBR1	= Segment base register SBR1.
SBR2	= Segment base register SBR2.
SBR3	= Segment base register SBR3.
SBR4	= Segment base register SBR4.
SBR5	= Segment base register SBR5.
SBR6	= Segment base register SBR6.
SBR7	= Segment base register SBR7.
SCRATCH0	= JE group temp subgroup scratch register SCRATCH0.
SCRATCH1	= JE group temp subgroup scratch register SCRATCH1.
SDR	= Store data register.
SP	= Stack pointer SP.
SSRC	= System status register (SSR) clear.
SSRS	= SSR set.
SYSBASE	= Beginning address of *UNIX*® RTR Operating System tab.
T0	= JE group temp subgroup scratch register T0.
T1	= JE group temp subgroup scratch register T1.
T2	= JE group temp subgroup scratch register T2.
T3	= JE group temp subgroup scratch register T3.
T4	= JE group temp subgroup scratch register T4.
T5	= JE group temp subgroup scratch register T5.
T6	= JE group temp subgroup scratch register T6.
T7	= JE group temp subgroup scratch register T7.
TIMERS	= Timing circuit.
TOPIS	= Interrupt stack pointer.
UINT0	= Error microinterrupt hander register UINT0.
UINT1	= Error microinterrupt hander register UINT1.
UINT2	= Error microinterrupt hander register UINT2.
UINT3	= Error microinterrupt hander register UINT3.
UINTER	= Shadow error register (uint_er) loaded during an error microinterrupt.

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b = Offset. Omission of the keyword implies no indirect addressing. Offsets are only allowed if one register is specified. Offsets are in bytes unless the WORD option is used.

c = The length of the dump, in bytes unless the WORD option is used. The maximum is 128 bytes or 32 words for memory dumps and 4 bytes for register dumps. The default is 1 unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries.

c = Indicator that the operation should use the locations beginning 'c' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the L option.

WORD = Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words, including addresses derived in address chains. If this option is omitted they are assumed to be byte values.

4. SYSTEM RESPONSE

IP = In progress. The message has been added to the WHEN action list.

NG = No good. May also include:

- BAD REG NAME

PF = Printout follows. Followed by the DUMP:REG output message.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
DUMP:ADDR
DUMP:PID
DUMP:PMEM
DUMP:UID
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Message(s):

```
DUMP:REG
```

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DUMP:RUTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a dump of the memory contents of the specified address at the given common network interface (CNI) ring node. Currently a maximum length of 468 bytes is allowed for a single dump operation. All addresses are to be provided in hexadecimal. All lengths are to be specified in decimal.

Format 1 dumps the contents of memory at the address range given at the specified CNI ring node.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

Format 2 dumps the contents of memory from the given address for the specified length.

2. FORMAT

```
[1]    DUMP:RUTIL=a-b,AP:ADDR=c-d;

[2]    DUMP:RUTIL=a-b,AP:ADDR=c,{L=e|NL=f}[:WORD];
```

3. EXPLANATION OF MESSAGE

`ADDR` = Address.

`AP` = Attached processor.

`WORD` = If specified, '`e`' and '`f`' are the number of four-byte words to dump, otherwise they are the number of bytes to dump.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Start address of the dump in hexadecimal.

`d` = End address of the dump in hexadecimal.

`e` = Length of the dump in decimal where '`c`' is the beginning of the address dump.

`f` = Length of the dump in decimal where '`c`' is the end address of the dump; the start address is calculated by using the end address minus the total number of bytes to dump.

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4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:RUTIL output message.

5. REFERENCES

Input Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL
```

Output Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:SMEAS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a dump of the common channel interoffice signaling (CCIS) signaling measurements (SMEAS) from history files.

2. FORMAT

```
DUMP:SMEAS=a[-a]:HIST=b:{SLK=c-d[&&e-f]|NODE=c-d[&&e-f]|CHN=g[&&-h]
|LS=i[&&j]|CLUSTER=k[&&l]}[:DEST=m];
```

3. EXPLANATION OF MESSAGE

`a` = Measurement identification. Refer to the References section of this message.

`b` = History file name (as it appears in /no5text/cni/meas). Valid value(s):

`C30M`	= Current 30-minute data file.
`CDAY`	= Current day data file.
`CHRM`	= Current hour data file.
`L15M`	= Last 15-minute data file.
`L30M`	= Last 30-minute data file.
`LDAY`	= Last day data file.
`LHRM`	= Last hour data file.
`LPM`	= Last period measurement structure.

`c` = Group number or lower limit of a range of group numbers of signaling links (SLKs) or nodes.

`d` = Member number or a lower limit of a range of member numbers of SLKs or nodes.

`e` = Upper limit of a range of group numbers.

`f` = Upper limit of a range of member numbers.

`g` = Channel number (CHN) or lower limit of a range of channel numbers.

`h` = Upper limit of a range of channel numbers.

`i` = Link set (LS) or lower limit of a range of link set numbers.

`j` = Upper limit of a range of link set numbers.

`k` = Cluster or lower limit of a range of clusters.

`l` = Upper limit of a range of clusters.

`m` = Destination class. The 'destination number to output device' cross-reference can be found by using the OP:OUTCLS input message.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DUMP:SMEAS output message.

5. REFERENCES

Input Message(s):

`OP:OUTCLS`

Output Message(s):

`DUMP:SMEAS`

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-118-21x *Recent Change Procedures - Menu Mode*
235-190-120 *Common Channel Signaling Service Features*

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DUMP:SMMAP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the variable sections of switching module (SM) memory be dumped. The start and end addresses of ODD ranges, real time billing memory, standalone billing memory, and any peripheral image which is loaded in the SM, are given in the output.

2. FORMAT

```
DUMP:SMMAP,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

4. SYSTEM RESPONSE

`NG` = No good. Request not initiated due to bad syntax or invalid SM specified.

`PF` = Printout follows. Followed by the DUMP:SMMAP output message.

5. REFERENCES

Output Message(s):

`DUMP:SMMAP`

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DUMP:TMS-A

Software Release: 5E15 - 5E16(1)
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs).

2. FORMAT

```
DUMP:TMS=a;
```

3. EXPLANATION OF MESSAGE

`a` = Side of the office network and timing complex (ONTC) that the TMS is on.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Output Message(s):

```
DUMP:TMS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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DUMP:TMS-B

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs) and related information.

2. FORMAT

```
DUMP:TMS=a[,TMSFP=b];
```

3. EXPLANATION OF MESSAGE

`a` = Side of the office network and timing complex (ONTC) that the TMS is on.

`b` = The TMS fabric pair (TMSFP) number for which information should be dumped. This field is only valid for CM3 offices, and will default to 0 if not specified. In a CM3 office with multiple TMSFPs, a separate DUMP:TMS command must be entered for each TMSFP in order to obtain data for the entire TMS.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Output Message(s):

```
DUMP:TMS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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DUMP:UID

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of a specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified utility identifier. This message cannot be used as an action associated with a breakpoint.

The range is specified by two addresses or by one address and a length. The length defaults to a value of 1.

If only one address is given, indirect addressing may be specified. In this case, the first offset is added to the value of the given address and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the location specified in the DUMP:UID message for the dump location.

2. FORMAT

```
DUMP:UID=a,ADDR={b&&c|b[,OFF=d][,{L=e|NL=f}]}[:WORD];
```

3. EXPLANATION OF MESSAGE

`WORD` = Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words including addresses derived in address chains. If this option is omitted they are assumed to be byte values.

`a` = Utility ID number of the target process.

`b` = Starting virtual address of the dump in decimal, binary, octal, or hexadecimal notation. Assumed to be a byte address unless the WORD option is used.

`c` = Ending virtual address of dump. Assumed to be a byte address unless the WORD option is used.

`d` = Offset. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is used.

`e` = The length of the dump, in bytes unless the WORD option is used. The maximum is 128 bytes or 32 words. The default is 1, unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries.

`f` = Indicator that the operation should use the locations beginning '`f`' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the '`e`' option.

4. SYSTEM RESPONSE

`NG` = No good. The UID is for a process for which dumps are not permitted.

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`PF` = Printout follows. Followed by the DUMP:UID output message.

`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

`?A` = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. May also include:
`INVALID KEYWORD` = Message not allowed in a WHEN action list.

`?I` = General syntax error. May also include:
`EXTRA KEYWORD (UID)` = UID is not valid in a WHEN action list.
`INCONSISTENT DATA (ADDR)` = Address range must be in ascending order.
`INPUT ERROR (OFF COUNT)` = Too many offsets listed.
`RANGE ERROR (L or NL)` = Length specified is too long or zero.
`RANGE ERROR (UID)` = Utility ID is out of range.

5. REFERENCES

Input Message(s):

```
DUMP:ADDR
DUMP:PID
DUMP:PMEM
DUMP:REG
OP:UMEM
```

Output Message(s):

```
DUMP:UID
```

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DUMP:UT-CMP-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.

This message may be used together with any of the other CMP generic utility input messages (see the input message listed in the Reference section).

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

Format 2 requests that a function trace be performed on the specified CMP. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    DUMP:UT:CMP=a,{MATE|PRIM}[,DIS][,EA][,L=b],. . .
       . . .{ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g}. . .
       . . .[,INDIR=h][,OFF=i[-i][-i]]{!|;}
       ____________________________________________________

[2]    DUMP:UT:CMP=a,{MATE|PRIM},FTRACE{!|;}
       ____________________________________________________
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby CMP's memory starting at the final calculated address.

`PRIM` = Dump the contents of the active CMP's memory starting at the final calculated address.

`REGS` = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

`a` = CMP number.

`b` = Length in bytes of the dump (1-8064). The full range is only available outside a WHEN

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breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

`c` = Absolute address of location to start the dump or the starting point for indirect addressing.

`d` = Name of a specific register whose data is to be dumped.

If switch CM complex is a model 3, valid value(s):

`CR` = Condition register.
`CTR` = Count register.
`EIMR` = External interrupt mask register.
`GPR0` = General purpose register.
`GPR2-GPR31` = General purpose registers.
`LR` = Link register.
`MSR` = Machine state register.
`PC` = Program counter. (from module processor).
`SMIMR` = System management interrupt mask register (from module processor).
`SP` (also known as GPR1) = General purpose register.
`XER` = Integer exception.

If switch CM complex is model 2 or earlier, valid value(s):

`A0-A5` = Address registers.
`A6` = The frame pointer FP.
`A7` = The stack pointer SP.
`D0-D7` = Data registers.
`PC` = Program counter.
`SR` = Status register.

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

`e` = Number of the utility variable UVAR (0-14) whose data is to be dumped.

`f` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters, the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`h` = The number of levels of indirection to be calculated by generic utilities (0-3, default=0).

`i` = The offsets, in bytes, at each level of indirection (0-65535, default=0). However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3.

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4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
END:UT-SM
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
DUMP:UT-CMP
REPT:STACK-TRACE
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-CMP-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.

This message may be used together with any of the other CMP generic utility input messages (see the input message listed in the Reference section).

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

Format 2 requests that a function trace be performed on the specified CMP. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    DUMP:UT:CMP=a,{MATE|PRIM}[,DIS][,EA][,L=b],. . .
       . . .{ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g}[,INDIR=h]. . .
       . . .[,OFF=i[-i][-i]]{!|;}
       ____________________________________________________________

[2]    DUMP:UT:CMP=a,{MATE|PRIM},FTRACE{!|;}
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby CMP's memory starting at the final calculated address.

`PRIM` = Dump the contents of the active CMP's memory starting at the final calculated address.

`REGS` = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

`a` = CMP number.

`b` = Length in bytes of the dump (1-8064). The full range is only available outside a WHEN

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breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

`c` = Absolute address of location to start the dump or the starting point for indirect addressing.

`d` = Name of a specific register whose data is to be dumped.

If switch CM complex is a model 3, valid value(s):

`CR` = Condition register.
`CTR` = Count register.
`EIMR` = External interrupt mask register (from module processor).
`GPR0` = General purpose register.
`GPR2-GPR31` = General purpose registers.
`LR` = Link register.
`MSR` = Machine state register.
`PC` = Program counter.
`SMIMR` = System management interrupt mask register (from module processor).
`SP` (also known as GPR1) = General purpose register.
`XER` = Integer exception.

If switch CM complex is model 2 or earlier, valid value(s):

`A0-A5` = Address registers.
`A6` = The frame pointer (FP).
`A7` = Stack pointer (SP).
`D0-D7` = Data registers.
`PC` = Program counter.
`SR` = Status register.

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

`e` = Number of the utility variable UVAR (0-14) whose data is to be dumped.

`f` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters, the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`h` = The number of levels of indirection to be calculated by generic utilities (0-3, default=0).

`i` = The offsets, in bytes, at each level of indirection (0-65535, default=0). However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3.

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4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
END:UT-SM
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
DUMP:UT-CMP
REPT:STACK-TRACE
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-CMPMSG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified communication module processor message handler (CMPMSG) be dumped.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
DUMP:UT:CMPMSG=a-b[{,DIS|,EA}],{ADDR=c|GVAR="d"|SYMIDX=e}
[,L=f][,INDIR=g][,OFF=h[-h][-h]];
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = CMPMSG number.

`c` = Absolute address of location to start the dump (unless indirection has been specified).

`d` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Length in bytes of the dump (default is 1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = The number of levels of indirection to be calculated by generic utilities (default is 0). Refer to

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the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = The offsets, in bytes, at each level of indirection. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
LOAD:UT-CMPMSG
```

Output Message(s):

```
DUMP:UT-CMPMSG
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-DNUS

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) common controller (CC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
DUMP:UT:DNUS=a-b[,MATE][,DIS][,EA][,L=c],{ADDR=d|UVAR=e|GVAR="f"|SYMIDX=g}
[,INDIR=h][,OFF=i[-i[-i]]]{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby DNU-S CC's memory starting at the final calculated address. (Default: dump active memory.)

`a` = Switching module (SM) number.

`b` = DNU-S number.

`c` = Length in bytes of the dump. Maximum length is 248 bytes. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

`d` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

`e` = Number of the utility variable (0 - 10) whose contents are to be dumped.

`f` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

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`h` = Number of levels of indirection to be calculated by generic utilities (range 0-3) (default is 0).

`i` = The offset, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (maximum is 3) (default is 0).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
EXC:UT-DNUS
LOAD:UT-DNUS
```

Output Message(s):

```
DUMP:UT-DNUS
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-FPC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory location in the specified foundation peripheral controller (FPC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
DUMP:UT:FPC=a[{,DIS|,EA}],{ADDR=b|IO=c|GVAR="d"|SYMIDX=e}[,L=f]
[,INDIR=g][,OFF=h[-h[-h]]];
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`a` = FPC number.

`b` = Absolute address of the location to start the dump or the starting point for indirect addressing to the start of the dump.

`c` = The number of the I/O port to be dumped.

`d` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Length in bytes of the dump (1 - 192 bytes, default is 1).

`g` = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

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`h` = The offsets, in bytes, at each level of indirection (0 - 65535, default is 0). The maximum number of offsets is 3.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
DUMP:UT-FPC
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-IDCU

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
DUMP:UT:IDCU=a-b[,MATE][,DIS][,EA][,L=c],{ADDR=d|UVAR=e|GVAR="f"|SYMIDX=g}
[,INDIR=h][,OFF=i[-i[-i]]];
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby IDCU's memory starting at the final calculated address. (Default: dump active memory.)

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`c` = Length in bytes of the dump. Maximum length is 64. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

NOTE: The dumping and loading of the unified control interface (UCI) register area cannot overlap with the remainder of the IDCU address range (variable '`d`').

`d` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump. The address range from h'30000332 to h'300003ff is the UCI register area.

`e` = Number of the utility variable whose contents are to be dumped. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If

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the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Number of levels of indirection to be calculated by generic utilities. Indirection is not allowed when dumping the UCI register area (variable 'd') (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = The offset, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (maximum is 3) (default is 0).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
EXC:UT-IDCU
LOAD:UT-IDCU
```

Output Message(s):

```
DUMP:UT-IDCU
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

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DUMP:UT-IDCULSI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) loop side interface (LSI) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
DUMP:UT:IDCULSI=a-b-c[,MATE][,DIS][,EA][,L=d]
{,ADDR=e|,UVAR=f|,GVAR="g"|,SYMIDX=h}[,INDIR=i][,OFF=j[-j[-j]]];
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby LSI's memory starting at the final calculated address. (Default: dump active memory.)

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = LSI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Length in bytes of the dump. Maximum length is 64. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

NOTE: The dumping and loading of the unified control interface (UCI) register area cannot overlap with the remainder of the IDCU LSI address range (variable 'e').

`e` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump. The address range from 0x4400 to 0x44ff is the UCI register area.

`f` = Number of the utility variable whose contents are to be dumped. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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g = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'h' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

h = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

i = Number of levels of indirection to be calculated by generic utilities. Indirection is not allowed when dumping the UCI register area (variable 'e') (range is 0-3) (default is 0).

j = The offset, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
EXC:UT-IDCULSI
LOAD:UT-IDCULSI
```

Output Message(s):

```
DUMP:UT-IDCULSI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

DUMP:UT-ISLUCC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified integrated services line unit common controller (ISLUCC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
DUMP:UT:ISLUCC=a-b[,MATE][,DIS][,EA][,L=c]
{,ADDR=d|,UVAR=e|,GVAR="f"|,SYMIDX=g}[,INDIR=h][,OFF=i[-i[-i]]];
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby ISLUCC's memory starting at the final calculated address. (Default: dump active memory.)

`a` = Switching module (SM) number.

`b` = Line unit number.

`c` = Length in bytes of the dump (1 - 64). Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX. The dumping and loading of the unified control interface (UCI) register area cannot overlap with the remainder of the common control (CC) address range (variable '`d`').

`d` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump. The address range from H'4532 to H'45ff is the UCI register area.

`e` = Number of the utility variable whose contents are to be dumped. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` = Symbol index number of this global variable. The symbol index can be determined for this

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processor by using the DUMP:UT-SYMID input message.

`h` = Number of levels of indirection to be calculated by generic utilities. Indirection is not allowed when dumping the UCI register area (variable '`d`') (range is 0-3) (default is 0).

`i` = The offset, in bytes, at each level of indirection (range is 0-65535) (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
EXC:UT-ISLUCC
LOAD:UT-ISLUCC
```

Output Message(s):

```
DUMP:UT-ISLUCC
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-MCTSI-MH

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified message handler (MH) unit be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
DUMP:UT:MCTSI=a-b,MH[,MATE][,DIS][,EA][,L=c]
,{ADDR=d|UVAR=e|GVAR="f"|SYMIDX=g}[,INDIR=h][,OFF=i[-i][-i]]{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby MH's memory starting at the final calculated address. Default is active MH memory.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Message handler unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Length in bytes of the dump (1-1000). Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

`d` = Absolute address of location to start the dump or the starting point for indirect addressing.

`e` = Number of the utility variable UVAR (0-10) whose data is to be dumped.

`f` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

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`h` = The number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

`i` = The offsets, in bytes, at each level of indirection (range is 0-65535) (default is 0). However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
EXC:UT-MCTSI-MH
LOAD:UT-MCTSI-MH
```

Output Message(s):

```
DUMP:UT-MCTSI-MH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-MCTSI-PI-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.

Format 2 requests that a function trace be performed in the specified PI unit. This input message can only be used in a WHEN input message clause.

NOTE: Format 2 is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    DUMP:UT:MCTSI=a-b,PI[,DIS][,EA][,L=c]
       ,{ADDR=d|UVAR=e|REG=f|REGS|GVAR="g"|SYMIDX=h}[,INDIR=h]
       [,OFF=i[-i[-i]]]{!|;}

[2]    DUMP:UT:MCTSI=a-b,PI,FTRACE{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

`c` = Total length in bytes of the dump. Maximum length is 1000 bytes for PIs of PI1 type. For PIs of PI2 type the maximum length is 32767. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

`d` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

`e` = Number of the utility variable UVAR (0-14) whose contents are to be dumped for PIs of PI2 type. For PIs of PI1 type the utility variables are (0-11).

NOTE: The REG and REGS option is only supported on PIs of the PI2 hardware type.

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f Dumps data from a specific register (address registers A1-A7, data registers D0-D7, program counter PC, or status register SR). If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

g = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'h' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

h = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

i = Number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

j = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3). In the PI1, offsets can range from 0-65535 in the positive direction. In the PI2, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
DUMP:UT-SYMID
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

Output Message(s):

```
DUMP:UT-MCTSI-PI
REPT:STACK-TRACE
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

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Other Manual(s):
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DUMP:UT-MCTSI-PI-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.

Format 2 requests that a function trace be performed in the specified PI unit. This input message can only be used in a WHEN input message clause.

Note: Format 2 is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    DUMP:UT:MCTSI=a-b,PI[,DIS][,EA][,L=c]
       ,{ADDR=d|UVAR=e|REG=f|REGS|GVAR="g"|SYMIDX=h}[,INDIR=h]
       [,OFF=i[-i[-i]]]{!|;}

[2]    DUMP:UT:MCTSI=a-b,PI,FTRACE{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

`c` = Total length in bytes of the dump. Maximum length is 1000 bytes.

`d` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

`e` = Number of the utility variable UVAR (0-14) whose contents are to be dumped for PIs of PI2 type. For PIs of PI1 type the utility variables are (0-11).

Note: The REG and REGS option is only supported on PIs of the PI2 hardware type.

`f` Dumps data from a specific register (address registers A1-A7, data registers D0-D7, program

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counter PC, or status register SR). If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

g = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'h' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

h = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

i = Number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

j = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3). In the PI1, offsets can range from 0-65535 in the positive direction. In the PI2, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
DUMP:UT-SYMID
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

Output Message(s):

```
DUMP:UT-MCTSI-PI
REPT:STACK-TRACE
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

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DUMP:UT-MMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
DUMP:UT:MMP=a-b[{,DIS|,EA}],{ADDR=c|IO=d|GVAR="e"|SYMIDX=f}
[,L=g][,INDIR=h][,OFF=i[-i[-i]]];
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MMP number.

`c` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

`d` = The number of the I/O port to be dumped.

`e` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`f`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`f` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`g` = Length in bytes of dump. Maximum length is 192 bytes. Default is 1 byte.

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`h` = The number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

`i` = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
EXC:UT-MMP
LOAD:UT-MMP
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

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DUMP:UT-MSGS

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified message switch (MSGS) be dumped.

NOTE: This command is valid only on MSGS processors of communication Model 3.

2. FORMAT

```
DUMP:UT:MSGS=a,{AP|IP}[,DIS][,EA,{ADDR=b|GVAR="c"|SYMIDX=d|UVAR=e}
[,L=f][,INDIR=g][,OFF=h[-h][-h]];
```

3. EXPLANATION OF MESSAGE

`AP` = Dump the contents of the MSGS application processor's memory starting at the final calculated address.

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`IP` = Dump the contents of the MSGS interface processor's memory starting at the final calculated address.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Absolute address of location to start the dump (unless indirection has been specified).

`c` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this command using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input command.

`d` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

`e` = Number of the utility variable UVAR (0-10) whose data is to be dumped.

`f` = Length in bytes of the dump (1 - 192 bytes). Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR, and SYMIDX.

`g` = The number of levels of indirection to be calculated by generic utilities (0 - 3, default = 0).

`h` = The offsets, in bytes, at each level of indirection (0 - 65535). Offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection.

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Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
DUMP:UT-MSGS
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

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DUMP:UT-OFI

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one more sequential memory locations in the specified optical facility interface (OFI) be dumped.

This request may be used together with any of the other OFI generic utility input requests (refer to the REFERENCES section).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

```
DUMP:UT:OFI=a-b-c-d[,DIS][,EA][,L=e],{ADDR=f|UVAR=g|GVAR="h"|SYMIDX=i}. . .
. . .[,INDIR=j][,OFF=k[-k][-k]]{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Side number.

`e` = Length in bytes of the dump. The maximum dump length for an OFI is 248. Default is 4 bytes for utility variable (UVAR), 1 byte for ADDR, GVAR and SYMIDX.

`f` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

`g` = Number of the UVAR (0 - 10) whose contents are to be dumped.

`h` = Symbolic name of the global variable or function to be used to determine a starting address.

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The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'i' must be used to enter this input request using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT:SYMID input request.

i = Symbolic index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input request.

j = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

k = The offsets, in bytes, at each level of indirection (default is 0). One offset can be specified per each level of indirection. Maximum number of offsets is 3.

Note: Offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
EXC:UT-OFI
LOAD:UT-OFI
```

Output Message(s):

```
DUMP:UT-OFI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

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DUMP:UT-ONTC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified office network and timing complex processor (ONTC) be dumped.

NOTE: This command is valid only on ONTC processors of communication Model 3.

2. FORMAT

```
DUMP:UT:ONTC=a,{AP|IP}[,DIS][,EA],{ADDR=b|GVAR="c"|SYMIDX=d|UVAR=e}
[,L=f][,INDIR=g][,OFF=h[-h][-h]];
```

3. EXPLANATION OF MESSAGE

`AP` = Dump the contents of the ONTC application processor's memory starting at the final calculated address.

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`IP` = Dump the contents of the ONTC interface processor's memory starting at the final calculated address.

`a` = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Absolute address of location to start the dump (unless indirection has been specified).

`c` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this command using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input command.

`d` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

`e` = Number of the utility variable UVAR (0-10) whose data is to be dumped.

`f` = Length in bytes of the dump (1 - 192 bytes). Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR, and SYMIDX.

`g` = The number of levels of indirection to be calculated by generic utilities (0 - 3, default = 0).

`h` = The offsets, in bytes, at each level of indirection (0 - 65535). Offsets greater than 32767 will

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be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
DUMP:UT-ONTC
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

System Maintenance Requirements and Tools

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DUMP:UT-PPC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
DUMP:UT:PPC=a[{,DIS|,EA}],{ADDR=b|IO=c|GVAR="d"|SYMIDX=e}
[,L=f][,INDIR=g][,OFF=h[-h][-h]];
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`a` = PPC number.

`b` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

`c` = The number of the I/O port to be dumped.

`d` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Length in bytes of the dump (range is 1-192) (default is 1).

`g` = The number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

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`h` = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
EXC:UT-PPC
LOAD:UT-PPC
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

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DUMP:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.

This request may be used together with any of the other PSUPH generic utility input requests (refer to the **REFERENCES** section).

If this request is used together with other generic utility requests, the END:UT-PSUPH input request may be used to signal the end of the series of requests.

Format 2 requests that a function trace be performed in the specified PSUPH. This input request can only be used in a (non-timed) WHEN clause.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

```
[1]    DUMP:UT:PSUPH=a-b-c-d[,DIS][,EA][,L=e]...
       ...,{ADDR=f|REG=g|REGS|UVAR=h|GVAR="i"|SYMIDX=j}...
       ...[,INDIR=k][,OFF=l[-l][-l]]{!|;}

[2]    DUMP:UT:PSUPH=a-b-c-d,FTRACE{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.
Note: The REGS and REG options of this input request are only supported in a PSUPH of the PH[3-4,6,22], PHA, PHV[1-5] hardware type (that is, not valid for PH2 hardware type).

`REGS` = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number (always 0).

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`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Length in bytes of the dump. The maximum dump length for a PSUPH is (1-1000). Default is 4 bytes for utility variable (UVAR) and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

`f` = Absolute address of location to start the dump or the starting point for indirect addressing.

`g` = Name of a specific register whose data is to be dumped. The following registers can be used:

- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

Note: If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

`h` = Number of the UVAR whose data is to be dumped. The range of UVARs in a PSUPH of the PH2 hardware type is (0-10). For all other PHs, the range of UVARs is (0-14).

`i` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`j`' must be used to enter this input request using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input request.

`j` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input request.

`k` = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

`l` = The offsets, in bytes, at each level of indirection (default is 0). One offset can be specified per each level of indirection. Maximum number of offsets is 3.

Note: In the PH2, offsets can range from 0-65535 in the positive direction.

In all other PHs, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
DUMP:UT-PSUPH
REPT:STACK-TRACE
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-PSUPH-B

Software Release: 5E16(1) - 5E20(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.

This request may be used together with any of the other PSUPH generic utility input requests (refer to the **REFERENCES** section).

If this request is used together with other generic utility requests, the END:UT-PSUPH input request may be used to signal the end of the series of requests.

Format 2 requests that a function trace be performed in the specified PSUPH. This input request can only be used in a (non-timed) WHEN clause. PH2 is not supported but all the other PH hardware types are.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

```
[1]    DUMP:UT:PSUPH=a-b-c-d[,DIS][,EA][,L=e]. . .
       . . .,{ADDR=f|REG=g|REGS|UVAR=h|GVAR="i"|SYMIDX=j}. . .
       . . .[,INDIR=k][,OFF=l[-l][-l]]{!|;}
```

```
[2]    DUMP:UT:PSUPH=a-b-c-d,FTRACE{!|;}
```

---

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

NOTE: The REGS and REG options of this input request are not supported for PH2 but are for all other.

`FTRACE` = Dump the contents of the processor stacks when the WHEN:UT message is triggered.

`REGS` = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Length in bytes of the dump. The maximum dump length for a PSUPH is (1-1000). Default is 4 bytes for utility variable (UVAR) and REG unless REG is the status register that defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

f = Absolute address of location to start the dump or the starting point for indirect addressing.

g = Name of a specific register whose data is to be dumped. Valid value(s):

PSUPH Hardware Type:	**Registers:**
PHV5, PHV6, PH31, PHA2, or PHE2	GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. SP = Stack pointer SP (also known as GPR1). LR = Link register. PC = Program counter. CTR = Count register. CR = Condition register. MSR = Machine state register. XER = Exception register XER.
PH[3-4,6,22], PHA or PHV[1-4]	A0-A5 = Address registers. A6 = the frame pointer FP. A7 = Stack pointer SP. D0-D7 = Data registers. PC = Program counter. SR = Status register SR.

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

h = Number of the UVAR whose data is to be dumped. The range of UVARs in a PSUPH of the PH2 hardware type is (0-10). For all other PHs, the range of UVARs is (0-14).

i = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'j' must be used to enter this input request using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input request.

j = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input request.

k = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

l = The offsets, in bytes, at each level of indirection (default is 0). One offset can be specified per each level of indirection. Maximum number of offsets is 3.

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NOTE: In the PH2, offsets can range from 0-65535 in the positive direction.

In all other PHs, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
DUMP:UT-PSUPH
REPT:STACK-TRACE
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-PSUPH-C

Software Release: 5E21(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.

This request may be used together with any of the other PSUPH generic utility input requests (refer to the **REFERENCES** section).

If this request is used together with other generic utility requests, the END:UT-PSUPH input request may be used to signal the end of the series of requests.

Format 2 requests that a function trace be performed in the specified PSUPH. This input request can only be used in a (non-timed) WHEN clause. PH2 is not supported but all the other PH hardware types are.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

```
[1]    DUMP:UT:PSUPH=a-b-c-d[,DIS][,EA][,L=e]. . .
       . . .,{ADDR=f|REG=g|REGS|UVAR=h|GVAR="i"|SYMIDX=j}. . .
       . . .[,INDIR=k][,OFF=l[-l][-l]]{!|;}
```

```
[2]    DUMP:UT:PSUPH=a-b-c-d,FTRACE{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

NOTE: The REGS and REG options of this input request are not supported for PH2 but are for all other.

`FTRACE` = Dump the contents of the processor stacks when the WHEN:UT message is triggered.

`REGS` = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Length in bytes of the dump. The maximum dump length for a PSUPH is (1-1000). Default is 4 bytes for utility variable (UVAR) and REG unless REG is the status register that defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

`f` = Absolute address of location to start the dump or the starting point for indirect addressing.

`g` = Name of a specific register whose data is to be dumped. Valid value(s):

PSUPH Hardware Type:	**Registers:**
PH[3-4,6,22], PHA or PHV[1-4]	= Registers. Valid value(s): A0-A5 = Address registers. A6 = The frame pointer (FP). A7 = Stack pointer (SP). D0-D7 = Data registers. PC = Program counter. SR = Status register (SR).
All other PSUPH hardware types	GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. SP = Stack pointer SP (also known as GPR1). LR = Link register. PC = Program counter. CTR = Count register. CR = Condition register. MSR = Machine state register. XER = Exception register XER.

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

`h` = Number of the UVAR whose data is to be dumped. The range of UVARs in a PSUPH of the PH2 hardware type is (0-10). For all other PHs, the range of UVARs is (0-14).

`i` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`j`' must be used to enter this input request using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input request.

`j` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input request.

`k` = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

`l` = The offsets, in bytes, at each level of indirection (default is 0). One offset can be specified

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per each level of indirection. Maximum number of offsets is 3.

NOTE: In the PH2, offsets can range from 0-65535 in the positive direction.

In all other PHs, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
DUMP:UT-PSUPH
REPT:STACK-TRACE
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-QGP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified quad-link packet switch (QLPS) gateway processor (QGP) be dumped.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
DUMP:UT:QGP=a-b,{AP|MSGH}[,DIS][,EA],{ADDR=c|GVAR="d"|SYMIDX=e}
[,L=f][,INDIR=g][,OFF=h[-h][-h]];
```

3. EXPLANATION OF MESSAGE

`AP` = Dump the contents of the QGP application processor's memory starting at the final calculated address.

`DIS` = Dump the data in a disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MSGH` = Dump the contents of the QGP message handler processor's memory starting at the final calculated address.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Absolute address of location to start the dump (unless indirection has been specified).

`d` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Length in bytes of the dump (1 - 192 bytes, default is 1).

`g` = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

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`h` = The offsets, in bytes, at each level of indirection (0 - 65535). Offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
DUMP:UT-QGP
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

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DUMP:UT-SM-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages. Format 2 requests that a function trace be performed in the specified SM. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    DUMP:UT:SM=a[,MATE][,DIS][,EA][,L=b]
       ,{ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g}
       [,INDIR=h][,OFF=i[-i][-i]]{!|;}

[2]    DUMP:UT:SM=a,FTRACE{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby SM's memory starting at the final calculated address. Default is active SM memory.

`REGS` = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

`a` = SM number.

`b` = Length in bytes of the dump. Maximum length is 65536 bytes outside a WHEN breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

`c` = Absolute address of location to start the dump or the starting point for indirect addressing to

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the start of the dump.

d = Dumps data from a specific register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR). If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

e = Number of the utility variable UVAR (0-14) whose data is to be dumped.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = The number of levels of indirection to be calculated by generic utilities. The maximum is 3. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
DUMP:UT-SM
REPT:STACK-TRACE
```

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Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
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DUMP:UT-SM-B

Software Release: 5E16(1) only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the **REFERENCES** section). If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages. Format 2 requests that a function trace be performed in the specified SM. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    DUMP:UT:SM=a[,MATE][,DIS][,EA][,L=b]
       ,{ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g}
       [,INDIR=h][,OFF=i[-i][-i]]{!|;}

[2]    DUMP:UT:SM=a,FTRACE{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby SM's memory starting at the final calculated address. Default is active SM memory.

`REGS` = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

`a` = SM number.

`b` = Length in bytes of the dump. Maximum length is 8064 bytes outside a WHEN breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

`c` = Absolute address of location to start the dump or the starting point for indirect addressing to

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the start of the dump.

d = Dumps data from a specific register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR). If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

e = Number of the utility variable UVAR (0-14) whose data is to be dumped.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = The number of levels of indirection to be calculated by generic utilities. The maximum is 3. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
DUMP:UT-SM
REPT:STACK-TRACE
```

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Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
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DUMP:UT-SM-C

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

Format 2 requests that a function trace be performed in the specified SM. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    DUMP:UT:SM=a[,MATE][,DIS][,EA][,L=b]. . .
       . . .,{ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g}. . .
       . . .[,INDIR=h][,OFF=i[-i][-i]]{!|;}
```

```
[2]    DUMP:UT:SM=a,FTRACE{!|;}
```

---

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`MATE` = Dump the contents of the standby SM's memory starting at the final calculated address. Default is active SM memory.

`REGS` = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

`a` = Switching module (SM) number.

`b` = Length in bytes of the dump. Maximum length is 8064 bytes outside a WHEN breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around

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1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

`c` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

`d` = Name of a specific register whose data is to be dumped. Valid value(s):

SM Software Configuration:	**Registers:**
CNFG2KPPC	`CR` = Condition register. `CTR` = Count register. `GPR0` = General purpose register. `GPR2-GPR31` = General purpose registers. `LR` = Link register. `MSR` = Machine state register. `PC` = Program counter. `SP` = Stack pointer register (also known as GPR1). `XER` = The external interrupt mask register (integer exception).
Not CNFG2KPPC	`A0-A5` = Address registers. `A6` = The frame pointer (FP). `A7` = Stack pointer (SP). `D0-D7` = Data registers. `PC` = Program counter. `SR` = Status register.

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

`e` = Number of the utility variable UVAR (0-14) whose data is to be dumped.

`f` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`h` = The number of levels of indirection to be calculated by generic utilities. The maximum is 3. Default is 0.

`i` = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
DUMP:UT-SM
REPT:STACK-TRACE
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-SYMID-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that Symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message. The symbolic information returned will be the processor identified (if used), the path to the symbol file, the symbol index number(s), and the complete symbol name(s).

For format 1, given a processor and symbol index as information, this input message provides the full name of the global symbol referenced by the index and the path used by that processor. For format 2, given a processor and symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches), their index numbers and the path used by that processor. For format 3, given a path to a COFF file on the administrative module (AM) and a symbol index as information, this input message provides the full name of the global symbol referenced by the index. For format 4, given a path to a COFF file on the AM and a symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches) and their index numbers.

Note 1: The processors CMPMSG, FPC, MMP, PPC, QGPAP and QGPMSGH are only supported when the switch CM complex is Model 2 or earlier.

Note 2: The processors MSGSAP, MSGSIP, ONTCAP, and ONTCIP are only supported when the switch CM complex is Model 3.

2. FORMAT

```
[1]    DUMP:UT:SYMID,{CMP=a|CMPMSG=b-c|DNUS=d-e|FCP=f|IDCU=d-g
       |IDCULSI=d-g-h|ISLUCC=d-i|MH=d-j|MMP=b-k|MSGSAP=b|MSGSIP=b
       |ONTCAP=w|ONTCIP=w|PI=d-l|PPC=m|PSUPH=d-v-n-o|QGPAP=b-p
       |QGPMSGH=b-p|SM=d|TMUX=d-e-q-r},SYMIDX=s;

[2]    DUMP:UT:SYMID,{CMP=a|CMPMSG=b-c|DNUS=d-e|FCP=f|IDCU=d-g
       |IDCULSI=d-g-h|ISLUCC=d-i|MH=d-j|MMP=b-k|MSGSAP=b|MSGSIP=b
       |ONTCAP=w|ONTCIP=w|PI=d-l|PPC=m|PSUPH=d-v-n-o|QGPAP=b-p
       |QGPMSGH=b-p|SM=d|TMUX=d-e-q-r},GVAR="t";

[3]    DUMP:UT:SYMID,PATH="u",SYMIDX=s;

[4]    DUMP:UT:SYMID,PATH="u",GVAR="t";
```

3. EXPLANATION OF MESSAGE

a = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`c` = CMP message handler number.

`d` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital networking unit - SONET common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Foundation peripheral controller number.

`g` = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = IDCU loop side interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Integrated services line unit common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Message handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Module message processor number.

`l` = Side of the module controller/time-slot interchanger.

`m` = Pump peripheral controller number.

`n` = Packet switch unit protocol handler (PSUPH) shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = PSUPH slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Quad-link packet switch gateway processor number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = DNU-S transmission multiplexer (TMUX) data group number.

`r` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Symbol index (SYMIDX) number of global variable.

`t` = Whole or partial symbol name of the global variable (GVAR) or function to be used for the symbol matching. Must be entered as a string of up to 127 characters, enclosed in double quotation marks. If the symbol name is greater than 127 characters the utsyminfo or 3bidump tools must be used on the UNIX terminal. Refer to the System Maintenance Requirements and Tools manual for information on the utsyminfo and 3bidump tools.

`u` = Full path from 'root' to COFF symbol file on the AM.

`v` = Unit number (always 0).

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`w` = Office network and timing complex side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Output Message(s):

```
DUMP:UT-SM
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

System Maintenance Requirements and Tools

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DUMP:UT-SYMID-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that Symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message. The symbolic information returned will be the processor identified (if used), the path to the symbol file, the symbol index number(s), and the complete symbol name(s).

For format 1, given a processor and symbol index as information, this input message provides the full name of the global symbol referenced by the index and the path used by that processor. For format 2, given a processor and symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches), their index numbers and the path used by that processor. For format 3, given a path to a COFF file on the administrative module (AM) and a symbol index as information, this input message provides the full name of the global symbol referenced by the index. For format 4, given a path to a COFF file on the AM and a symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches) and their index numbers.

Note 1: The processors CMPMSG, FPC, MMP, PPC, QGPAP and QGPMSGH are only supported when the switch CM complex is Model 2 or earlier.

Note 2: The processors MSGSAP, MSGSIP, ONTCAP, and ONTCIP are only supported when the switch CM complex is Model 3.

2. FORMAT

```
[1]    DUMP:UT:SYMID,{CMP=a|CMPMSG=b-c|DNUS=d-e|FCP=f|IDCU=d-g
       |IDCULSI=d-g-h|ISLUCC=d-i|MH=d-j|MMP=b-k|MSGSAP=b|MSGSIP=b
       |OFI=d-x-y-z|ONTCAP=w|ONTCIP=w|PI=d-l|PPC=m|PSUPH=d-v-n-o|QGPAP=b-p
       |QGPMSGH=b-p|SM=d|TMUX=d-e-q-r},SYMIDX=s;

[2]    DUMP:UT:SYMID,{CMP=a|CMPMSG=b-c|DNUS=d-e|FCP=f|IDCU=d-g
       |IDCULSI=d-g-h|ISLUCC=d-i|MH=d-j|MMP=b-k|MSGSAP=b|MSGSIP=b
       |OFI=d-x-y-z|ONTCAP=w|ONTCIP=w|PI=d-l|PPC=m|PSUPH=d-v-n-o|QGPAP=b-p
       |QGPMSGH=b-p|SM=d|TMUX=d-e-q-r},GVAR="t";

[3]    DUMP:UT:SYMID,PATH="u",SYMIDX=s;

[4]    DUMP:UT:SYMID,PATH="u",GVAR="t";
```

3. EXPLANATION OF MESSAGE

a = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`c` = CMP message handler number.

`d` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital networking unit - SONET common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Foundation peripheral controller number.

`g` = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = IDCU loop side interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Integrated services line unit common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Message handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Module message processor number.

`l` = Side of the module controller/time-slot interchanger.

`m` = Pump peripheral controller number.

`n` = Packet switch unit protocol handler (PSUPH) shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = PSUPH slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Quad-link packet switch gateway processor number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = DNU-S transmission multiplexer (TMUX) data group number.

`r` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Symbol index (SYMIDX) number of global variable.

`t` = Whole or partial symbol name of the global variable (GVAR) or function to be used for the symbol matching. Must be entered as a string of up to 127 characters, enclosed in double quotation marks. If the symbol name is greater than 127 characters the utsyminfo or 3bidump tools must be used on the UNIX terminal. Refer to the System Maintenance Requirements and Tools manual for information on the utsyminfo and 3bidump tools.

`u` = Full path from 'root' to COFF symbol file on the AM.

`v` = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`w` = Office network and timing complex side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Side number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Output Message(s):

```
DUMP:UT-SM
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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DUMP:UT-TMUX

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) transmission multiplexer (TMUX) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
DUMP:UT:TMUX=a-b-c-d[,DIS][,EA][,L=e],{ADDR=f|UVAR=g|GVAR="h"|SYMIDX=i}
[,INDIR=j][,OFF=k[-k[-k]]]{!|;}
```

3. EXPLANATION OF MESSAGE

`DIS` = Dump data in disassembled format.

`EA` = Dump the effective address of the specified field instead of the contents.

`a` = Switching module (SM) number.

`b` = DNU-S number.

`c` = Data group number.

`d` = TMUX number.

`e` = Length in bytes of the dump. Maximum length is 248 bytes. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

`f` = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

`g` = Number of the utility variable (0 - 10) whose contents are to be dumped.

`h` = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`i`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`i` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

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`j` = Number of levels of indirection to be calculated by generic utilities. (range is 0-3) (default is 0).

`k` = The offset, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
EXC:UT-TMUX
LOAD:UT-TMUX
```

Output Message(s):

```
DUMP:UT-TMUX
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

DUMP:UVAR

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of one or more administrative module (AM) generic access package (GRASP) utility variables either as an immediate message or as an action associated with a breakpoint. Utility variables are used to store data temporarily.

This message can also be used to dump an address range in main memory (by specifying a single utility variable and offsets) but only if the message is part of the action list for a WHEN message. If offsets are specified, the first offset is added to the value of the contents of the utility variable and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the utility variable for the dump location.

NOTE: Offsets can only be used if the DUMP:UVAR message is used as an action associated with a breakpoint, since that defines a process address space for memory addressing.

2. FORMAT

```
DUMP:UVAR=a[,OFF=b][,{L=c|NL=d}][:WORD];
```

3. EXPLANATION OF MESSAGE

`WORD` = Indicates that all addresses, offsets, and lengths are to be interpreted as words including addresses derived in address chains. If this option is omitted they are assumed to be byte values.

`a` = Utility variable(s) (1-50) to be dumped. A maximum of five utility variables may be listed.

`b` = Offset. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is used.

`c` = The length of the dump, assumed to be in bytes unless the WORD option is used. The maximum is 128 bytes or 32 words for memory dumps, 4 bytes or 1 word for utility variable dumps. The default is 1 unless a range is explicitly specified. The actual range of addresses to be dumped is rounded out to word address boundaries.

`d` = Used to indicate that the operation should use the locations beginning '`d`' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the '`c`' option.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`PF` = Printout follows. Followed by DUMP:UVAR output message.

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`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

`?I` = General syntax error. May also include:
- `EXTRA KEYWORD (OFF)` = Indirection not allowed except as action of a WHEN.
- `INCONSISTENT DATA (UVAR LIST + OFF)` = No indirection permitted with more than one utility variable listed.
- `INCONSISTENT KEYWORDS (NL-OFF)` = Negative length not allowed without OFF.
- `INPUT ERROR (OFF COUNT)` = Too many offsets listed.
- `INPUT ERROR (UVAR COUNT)` = Too many utility variables listed.
- `RANGE ERROR (L OR NL)` = Length specified too long or zero.
- `RANGE ERROR (UVAR)` = Invalid utility variable number was specified.

5. REFERENCES

Input Message(s):

```
DUMP:ADDR
DUMP:PID
DUMP:PMEM
DUMP:REG
DUMP:UID
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Message(s):

```
DUMP:UVAR
```

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26. ELSE

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ELSE:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the conditional ELSE input message used with the IF input message perform any communications module processor (CMP) generic utility input messages following it, provided the IF input message comparison is not true. Refer to the IF:UT-CMP input message.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ELSE:UT:CMP=a,{MATE|PRIM};
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby CMP.

`PRIM` = Execute this input message on the active CMP.

`a` = CMP number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

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Output Message(s):

```
IF:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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ELSE:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the conditional ELSE input message; which is used with the IF input message to perform any packet interface (PI) unit generic utility input messages following it, provided the IF input message comparison is not true (refer to the IF:UT-MCTSI-PI input message).

NOTE: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ELSE:UT:MCTSI=a-b,PI{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

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Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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ELSE:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true. Refer to the IF:UT-PSUPH input message.

NOTE: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ELSE:UT:PSUPH=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number (always 0).

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
END:UT-PSUPH
```

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```
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
IF:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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ELSE:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true. Refer to the IF:UT-PSUPH input message.

NOTE: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ELSE:UT:PSUPH=a-b-c-d{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
```

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```
DUMP:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
IF:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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ELSE:UT-SM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Conditional ELSE input message used with the IF input message will perform any switching module (SM) generic utility input messages following it, provided the IF input message comparison is not true. Refer to the IF:UT-SM input message.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ELSE:UT:SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
```

Output Message(s):

```
ELSE:UT-SM
```

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Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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27. END

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END:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a series of communication module processor (CMP) generic utility input messages be ended (Refer to the input messages listed in the REFERENCES section).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
END:UT:CMP=a,{MATE|PRIM},b;
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby CMP processor.

`PRIM` = Execute this input message on the active CMP processor.

`a` = CMP number.

`b` = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
```

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```
WHEN:UT-CMP
```

Output Message(s):

```
END:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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END:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a series of packet interface unit (PI) generic utility input messages be ended. Refer to the References section of this message.

NOTE: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
END:UT:MCTSI=a-b-c,PI;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

`c` = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
```

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```
WHEN:UT-MCTSI-PI
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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END:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended (Refer to the input messages listed in the REFERENCES section).

NOTE: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
END:UT:PSUPH=a-b-c-d,e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number (always 0).

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
```

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```
DUMP:UT-PSUPH
ELSE:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
END:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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END:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended (Refer to the input messages listed in the REFERENCES section).

NOTE: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
END:UT:PSUPH=a-b-c-d,e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
```

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```
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
END:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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END:UT-SM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a series of switching module (SM) generic utility input messages be ended (Refer to the input messages listed in the REFERENCES section).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
END:UT:SM=a,b;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

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```
END:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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END:WHEN

Software Release: 5E15 and later
Command Group:
Application: 5,3B
Type: Input

1. PURPOSE

Marks the end of a list of administrative module (AM) generic access package (GRASP) messages to be performed when a specified breakpoint condition exists.

2. FORMAT

```
END:WHEN;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the appropriate WHEN output message.

`RL` = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

`?A` = Only allowed in a WHEN action list.

`?I` = General syntax error or:
- `PUNCTUATION ERROR` = Exclamation point was expected.

5. REFERENCES

Input Message(s):

```
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Message(s):

```
WHEN:PID
WHEN:UID
```

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28. EX

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EX:ALIT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the automatic line insulation test (ALIT) unit. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the ALIT.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:ALIT. The unit will remain out of service.

2. FORMAT

```
[1]    EX:ALIT=a-b-c-d,START[,GROW];

[2]    EX:ALIT=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:ALIT=a-b-c-d;

[4]    EX:ALIT=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5]    EX:ALIT=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Metallic service unit number.

`c` = Service group number.

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`d` = Metallic service unit board number.

`e` = Number of segments to be executed, beginning from the current point of suspension. With this format, the RPT option is not allowed.

`f` = Number of times the exercise is to be repeated. Default=32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The number of the phase that has the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = Number of the phase in which suspension of diagnostic execution is desired.

`m` = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:ALIT output message.

5. REFERENCES

Input Message(s):

```
STP:ALIT
```

Output Message(s):

```
EX:ALIT
```

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EX:ASC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance exercises be performed on the remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC). This message is used for manual troubleshooting.

Format 1 activates a diagnostic on the ASC.

Format 2 executes a portion of a previously activated diagnostic.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until a specified number of segments have been run.

Format 4 inverts the state of a previously activated diagnostic, from running to suspended or vice versa.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:ASC input message. The circuit will remain out of service.

2. FORMAT

```
[1]    EX:ASC=a,START[,GROW];

[2]    EX:ASC=a,PH=g-h[&&i][,UCL][,RAW][,SYNCH=d-e-f] [,RPT[=c]][,TLP];

[3]    EX:ASC=a,STEP=b[,UCL][,RAW][,SYNCH=d-e-f][,TLP];

[4]    EX:ASC=a;

[5]    EX:ASC=a,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered circuit pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = The number of segments to be executed, beginning from the current point of suspension.

`c` = The number of times the exercise is to be repeated (1-32767). Default is 32,767.

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d = The phase.

e = The segment.

f = The statement number.

g = The phase.

h = The first segment in phase 'g' to be executed.

i = The last segment in phase 'g' to be executed.

j = The phase.

k = The segment.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the EX:ASC output message.

5. REFERENCES

Input Message(s):

```
STP:ASC
```

Output Message(s):

```
EX:ASC
```

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EX:BTSR

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs various exercises on the bootstrapper board (BTSR). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the BTSR.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 suspends a running diagnostic program.

Format 4 allows a previously suspended exercise to continue from the current point of suspension until the completion of the original exercise. If the exercise is required to continue in the same mode as before the suspension, the diagnostic options should be set as before.

Format 5 executes a portion of a previously activated diagnostic program.

Format 6 transfers control from the current point of suspension to a beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

2. FORMAT

```
[1]    EX:BTSR=a,START;

[2]    EX:BTSR=a[,UCL][,RAW][,SYNCH=d-e-f],STEP=b[,TLP];

[3]    EX:BTSR=a;

[4]    EX:BTSR=a[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=c]][,TLP];

[5]    EX:BTSR=a[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=c]] ,PH=g-h[,TLP];

[6]    EX:BTSR=a,PAUSE=i-j;
```

3. EXPLANATION OF MESSAGE

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack replacement list.

`UCL` = Unconditionally execute the removal.

`a` = Switching module (SM) number.

`b` = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified repeat (RPT) options.

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`c` = The number of times the exercise is to be repeated. Default=32,767.

`d` = Phase of segment '`e`' in statement '`f`'.

`e` = Segment of statement '`f`'.

`f` = Statement at the beginning of which a synchronizing pulse will be generated.

`g` = The phase whose segment(s) will be executed.

`h` = The segment or range of segments in phase '`g`' to be executed.

`i` = Phase number at which suspension of diagnostic execution is desired.

`j` = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the EX:BTSR output message.

5. REFERENCES

Output Message(s):

```
EX:BTSR
```

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EX:CDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs maintenance exercises on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit. This message is used for manual troubleshooting.

Format 1 activates a diagnostic on the CDFI.

Format 2 executes a portion of a previously activated diagnostic.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 4 inverts the state, from running to suspended or vice versa, of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:CDFI input message. The circuit will remain out of service.

2. FORMAT

```
[1]    EX:CDFI=a-b-c,START[,GROW];

[2]    EX:CDFI=a-b-c,PH=i[-j-k][,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]][,TLP];

[3]    EX:CDFI=a-b-c,STEP=d[,UCL][,RAW][,SYNCH=f-g-h][,TLP];

[4]    EX:CDFI=a-b-c;

[5]    EX:CDFI=a-b-c,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered circuit pack replacement list.

`UCL` = Execute unconditionally. Diagnostic will continue past all non-fatal errors.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number.

`c` = CDFI number.

`d` = The number of segments to execute, beginning from the current point of suspension.

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e = The repeat count, default is 32767.

fgh = Generate a synchronizing pulse at the beginning of statement 'h' in segment 'g' of phase 'f'. For 'i', 'j', 'k', execute the specified segments of the phase, where:

i = The phase.

j = The first segment in phase 'i' to be executed.

k = The last segment in phase 'i' to be executed.

l = The phase at which to suspend the diagnostic.

m = The segment at which to suspend the diagnostic.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May include one of the following:

- NOT STARTED UNIT IN GROWTH STATE.
- SM DOES NOT EXIST.
- SM UNEQUIPPED.
- UNIT DOES NOT EXIST.

PF = Printout follows. Followed by the EX:CDFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:CDFI
```

Output Message(s):

```
EX:CDFI
```

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EX:CDI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the control data interface (CDI) unit. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the CDI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:CDI input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:CDI=a-b-c,START[,GROW];

[2]    EX:CDI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:CDI=a-b-c;

[4]    EX:CDI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];

[5]    EX:CDI=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Trunk unit number.

`c` = Service group number.

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`d` = The number of segments to execute, beginning from the current point of suspension.

`e` = Number of times the exercise is to be repeated. (0-32,767) Default=32,767.

`f` = The phase that has state '`h`' and segment '`g`' (SM units only).

`g` = The segment that has statement '`h`' (SM units only).

`h` = The statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`i` = The phase that has the segment(s) to be executed.

`j` = The segment or range of segments in phase '`i`' to be executed.

`k` = Phase at which suspension of diagnostic execution is desired.

`l` = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:CDI output message.

5. REFERENCES

Input Message(s):

```
STP:CDI
```

Output Message(s):

```
EX:CDI
```

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EX:CMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnosis of a communication module processor (CMP). This message is used primarily for manual troubleshooting. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Format 1 activates a diagnostic program on the CMP.

Format 2 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts (toggles) the state of a previously activated diagnostic program from "running" to "suspended" or vice versa.

Format 4 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. It then executes the specified segment or segment range according to the specified options.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

Note 1: If the unit is not OOS, the system will first remove the unit conditionally.

Note 2: To stop any of these exercises, use the STP:CMP input message.

Note 3: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

```
[1]    EX:CMP=a-b,START[,GROW];

[2]    EX:CMP=a-b[,UCL][,RAW],STEP=c[,TLP];

[3]    EX:CMP=a-b;

[4]    EX:CMP=a-b[,UCL][,RAW][,RPT[=d]],PH=e-f[&&g][,TLP];

[5]    EX:CMP=a-b,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`GROW` = Interactively diagnose a CMP in the GROW state. If the CMP is GROW, this option must be input to perform the diagnostic.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

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`UCL` = Execute tests unconditionally and print test failures rather than stopping after the first test failure.

`a` = Message switch side number.

`b` = CMP number.

`c` = Number of segments to be executed, beginning from the current point of suspension.

`d` = Number of times the diagnostic segment(s) are to be repeated (1 to 32,767; default 32,767).

`e` = The number of the phase (PH) that has the segment(s) to be executed.

`f` = Segment number, or the lower limit of a range of segment numbers, in phase '`e`' to be executed.

`g` = Upper limit of a range of segment numbers in phase '`e`' to be executed.

`h` = The number of the phase at which suspension of diagnostic execution is desired.

`i` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the EX:CMP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:CMP
OP:DMQ-CM-SM
STP:CMP
```

Output Message(s):

```
EX:CMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):

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235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*
235-700-300 *Peripheral Diagnostic Language Reference*

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EX:CU

Software Release: 5E15 and later
Command Group: AM,CCS
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an administrative module (AM) control unit (CU) be exercised in an interactive diagnostic mode. Refer to the EX:LDPARM, EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:CU=a,CH=b[:[RAW][,UCL]],PH=c[,TLP][,{RPCN32|RPCN00|DFC|IOP}=d];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print all the diagnostic failures. Default is to print the first five failures.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Execute unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number.

`b` = Unit type and member number of the subunit beneath the CU. Valid subunit names and member numbers are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

`c` = Execute the specified phase.

NOTE: The phase will not be executed until subsequent input messages from input messages EX:PAUSE, EX:LOOP, EX:STEP, and EX:LDPARM are input.

`d` = Member number of the disk file controller (DFC), input/output processor (IOP), or ring peripheral controller node (RPCN) to be used as a helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or not available, the helper unit dependent tests are skipped.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:CU output message.

`RL` = Retry later. The system is in an overload condition.

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`?I` = General syntax error followed by the parameter position. May also include:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING DATA` = Data required for a keyword in the stated parameter block was not found.
- `MISSING KEYWORD` = A required keyword is missing from the input.

`?D` = General syntax error in the data field, followed by the parameter position. Includes one of the following:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING DATA` = Data required for the statement keyword was not found on the input line.
- `MISSING KEYWORD` = A required keyword is missing from the input.
- `RANGE ERROR` = Not a valid value for the statement parameter.

`?E` = Input error of undetermined type.

5. REFERENCES

Input Message(s):

```
DGN:CU
EX:LDPARM
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:CU
EX:CU
```

Input Appendix(es):

```
APP:MEM-NUM-CU
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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EX:DCI

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a dual serial channel/computer interconnect (DCI) in an interactive diagnostic mode.

2. FORMAT

```
EX:DCI=a[:[RAW][,UCL]]:DATA,PH=b[,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Prints all the diagnostic failures. Default is the first five failures.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the `TLP` and `UCL` parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Executes unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Number of the phase to be executed.

NOTE: The phase will not be executed until subsequent messages from EX:PAUSE, EX:LOOP, EX:STEP, and EX:STOP are input.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:DCI output message.

`RL` = Retry later. The system is in an overload condition.

`?I` = General syntax error, followed by the parameter position and one of the following reasons:
`EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
`INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
`MISSING KEYWORD` = A required keyword is missing from the input.

`?D` = General syntax error in the data field, followed by the parameter position and one of the following reasons:
`EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
`INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.

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`MISSING DATA` = Data required for the statement keyword was not found on the input line.
`MISSING KEYWORD` = A required keyword is missing from the input.
`RANGE ERROR` = Not a valid value for the statement parameter.

`?E` = Input error of undetermined type.

5. REFERENCES

Input Message(s):

```
DGN:DCI
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:DCI
EX:DCI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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EX:DCLU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) a *SLC*®96 digital carrier line unit (DCLU). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the DCLU. Format 2 executes a portion of a previously activated diagnostic program. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 resets the diagnostic's options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:DCLU input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:DCLU=a-b-c,START[,GROW];

[2]    EX:DCLU=a-b-c,PH=d[-e[&&f]][,UCL][,RAW][,SYNCH=g-h-i][,RPT[=j]]
       [,TLP];

[3]    EX:DCLU=a-b-c;

[4]    EX:DCLU(a,b,c),STEP=k[,UCL][,RAW][,SYNCH=(g,h,i)][,TLP];

[5]    EX:DCLU=a-b-c,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = DCLU number.

`c` = Service group number.

`d` = The phase that has the segment(s) to be executed.

`e` = The segment or upper limit of a range of segments in phase '`d`' to be executed.

`f` = Lower limit of a range of segments in phase '`d`' to be executed.

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`g` = The phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The segment that has statement '`i`' (SM units only).

`i` = The statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = Number of times the exercise is to be repeated. Default is 32,767.

`k` = The number of segments to be executed, beginning from the current point of suspension.

`l` = The phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the EX:DCLU output message.

5. REFERENCES

Input Message(s):

```
STP:DCLU
```

Output Message(s):

```
EX:DCLU
```

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EX:DCTUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the directly connected test unit common board (DCTUCOM). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the DCTUCOM.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:DCTUCOM. The unit will remain out of service.

2. FORMAT

```
[1]    EX:DCTUCOM=a-b,START[,GROW];

[2]    EX:DCTUCOM=a-b[,UCL][,RAW][,SYNCH=h-i-j],STEP=f[,TLP];

[3]    EX:DCTUCOM=a-b;

[4]    EX:DCTUCOM=a-b[,UCL][,RAW][,SYNCH=h-i-j][,RPT[=g]],PH=k-l[,TLP];

[5]    EX:DCTUCOM:UNIT=a-b,PAUSE=m-n;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack replacement list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Directly connected test unit number in the SM.

`f` = The number of segments to be executed, beginning from the current point of suspension.

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`g` = Number of times the exercise is to be repeated. Default=32,767.

`h` = The phase that has statement '`j`' and segment '`i`'.

`i` = The segment that has statement '`j`'.

`j` = The statement at the beginning of which a synchronizing pulse is to be generated.

`k` = The phase of the segment(s) to be executed.

`l` = The segment or range of segments in phase '`k`' to be executed.

`m` = The phase at which suspension of diagnostic execution is desired.

`n` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:DCTUCOM output message.

5. REFERENCES

Input Message(s):

```
STP:DCTUCOM
```

Output Message(s):

```
EX:DCTUCOM
```

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EX:DCTUPORT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the directly connected test unit port circuit (DCTUPORT). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the DCTUPORT.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:DCTUPORT input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:DCTUPORT=a-b-c,START[,GROW];

[2]    EX:DCTUPORT=a-b-c[,UCL][,RAW][,SYNCH=h-i-j],STEP=f[,TLP];

[3]    EX:DCTUPORT=a-b-c;

[4]    EX:DCTUPORT=a-b-c[,UCL][,RAW][,SYNCH=h-i-j][,RPT[=g]],PH=k-l[,TLP];

[5]    EX:DCTUPORT=a-b-c,PAUSE=m-n;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Directly connected test unit number in the SM.

`c` = Circuit number.

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`f` = The number of segments to be executed, beginning from the current point of suspension.

`g` = Number of times the exercise is to be repeated. Default=32,767.

`h` = The phase that has statement '`j`' and segment '`i`'.

`i` = The segment that has statement '`j`'.

`j` = The statement at the beginning of which a synchronizing pulse is to be generated.

`k` = The phase of the segment(s) to be executed.

`l` = The segment or range of segments in phase '`k`' to be executed.

`m` = The phase at which suspension of diagnostic execution is desired.

`n` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:DCTUPORT output message.

5. REFERENCES

Input Message(s):

```
STP:DCTUPORT
```

Output Message(s):

```
EX:DCTUPORT
```

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EX:DFC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a disk file controller (DFC) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:DFC=a[:[RAW][,UCL]],PH=b[,TLP][,CU=c];
```

3. EXPLANATION OF MESSAGE

`RAW` Prints all the diagnostic failures. Default is to print the first five failures.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together as it may produce an improper TLP listing.

`UCL` = Executes unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number.

`b` = Executes the specified phase.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages are input.

`c` = Member number of the CU helper unit. When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

NOTE: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:DFC output message.

5. REFERENCES

Input Message(s):

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```
DGN:DFC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:DFC
EX:DFC
```

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EX:DFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the digital facility interface (DFI). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the DFI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:DFI. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:DFI=a-b-c,START[,GROW];

[2]    EX:DFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:DFI=a-b-c;

[4]    EX:DFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];

[5]    EX:DFI=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack replacement list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Digital line-trunk unit number.

`c` = Digital facilities interface number.

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`d` = The number of segments to execute, beginning from the current point of suspension.

`e` = Number of times the exercise is to be repeated. Default=32,767.

`f` = The number of the phase that has statement '`h`' and segment '`g`' (SM units only).

`g` = The number of the segment that has statement '`h`' (SM units only).

`h` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`i` = The number of the phase that has the segment(s) to be executed.

`j` = The number of the segment or range of segments in phase '`i`' to be executed.

`k` = The number of the phase at which suspension of diagnostic execution is desired.

`l` = The number of the segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:DFI output message.

5. REFERENCES

Input Message(s):

```
STP:DFI
```

Output Message(s):

```
EX:DFI
```

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EX:DFIH

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH). This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic on the DFIH.

Format 2 executes a portion of a previously activated diagnostic.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments (STEP parameter) has been performed.

Format 4 inverts the state of a previously activated diagnostic from running to suspended or vice versa. This message removes all previous options set.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

NOTE: To stop any of these exercises, use the STP:DFIH input message. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:DFIH=a-b-c,START[,GROW];

[2]    EX:DFIH=a-b-c,PH=i[-j&&k][,UCL][,RAW][,SYNCH=f-g-h][,RPT[e]][,TLP];

[3]    EX:DFIH=a-b-c,STEP=d[,UCL][,RAW][,SYNCH=f-g-h][,TLP];

[4]    EX:DFIH=a-b-c;

[5]    EX:DFIH=a-b-c,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered circuit pack list.

`UCL` = Execute unconditionally. Diagnostic will continue past all nonfatal errors.

`a` = Switching module (SM) number.

`b` = RISLU digital line and trunk unit (DLTU) number

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`c` = DFIH number.

`d` = The number of segments (STEP) to execute, beginning from the current point of suspension.

`e` = The number of times the test is to be repeated (RPT). If '`e`' is not specified then the test repeats 32,767 times.

`f` = Number of the phase to generate a synchronizing pulse (SYNCH).

`g` = Number of the segment in phase '`f`' to generate pulse.

`h` = Number of the statement in segment '`g`' to generate pulse.

`i` = The number of the phase (PH) to be executed.

`j` = The number of the first segment in phase '`i`' to be executed.

`k` = Upper limit of a range of segments in phase '`i`' to be executed.

`l` = The number of the phase at which to suspend (PAUSE) the diagnostic.

`m` = The number of the segment at which to suspend the diagnostic.

4. SYSTEM RESPONSE

`NG` = No good.

```
- NG-CONFLICT WITH UNIT STATE.
- NG-SM DOES NOT EXIST.
- NG-SM UNEQUIPPED.
- NG-UNIT DOES NOT EXIST.
```

`PF` = Printout follows. Followed by the EX:DFIH output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:DFIH
```

Output Message(s):

```
EX:DFIH
```

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EX:DFTAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the distributing frame test access circuit (DFTAC) to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting. The circuit is left out of service when the testing is completed.

Format 1 activates a diagnostic program on the DFTAC.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

Format 4 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

To stop this exercise, use input message STP:DFTAC. The unit will remain out of service.

2. FORMAT

```
[1]    EX:DFTAC=a-b-c-d,START[,GROW];

[2]    EX:DFTAC=a-b-c-d[,RAW][,UCL][,RPT[=f][,SYNCH=g-h-i][,PH=j-k[&&l]]
       [,TLP];

[3]    EX:DFTAC=a-b-c-d,PAUSE=m-n;

[4]    EX:DFTAC=a-b-c-d,STEP=e[,RAW][,UCL][,SYNCH=g-h-i][,TLP];

[5]    EX:DFTAC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print trouble locating procedure ordered pack list.

`UCL` = Print all test failures in the specified segment range.

`a` = Switching module (SM) number.

`b` = Unit number.

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c = Service group number.

d = Board number.

e = The number of segments to execute, beginning from the current point of suspension.

f = The number of times the test is to be repeated (default is 32,767).

g = The number of the phase in which to generate a synch pulse.

h = The number of the segment in which to generate a synch pulse.

i = The number of the statement at the beginning of which a synchronous pulse is to be generated.

j = The number of the phase of the segment(s) to be executed.

k = The number of the segment or first segment of a range in phase 'j' to be executed.

l = The number of the last segment of a range in phase 'j' to be executed.

m = The number of the phase at which suspension of diagnostic execution is desired.

n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. Invalid SM number, MSU number, or service group number.

PF = Printout follows. The request was accepted. Followed by the EX:DFTAC output message.

5. REFERENCES

Input Message(s):

```
STP:DFTAC
```

Output Message(s):

```
EX:DFTAC
```

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EX:DIST

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the distribute point board (DIST). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the distribute point board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:DIST. The unit will remain out of service.

2. FORMAT

```
[1]    EX:DIST=a-b-c-d,START[,GROW];

[2]    EX:DIST=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:DIST=a-b-c-d;

[4]    EX:DIST=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5]    EX:DIST=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack replacement list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Metallic service unit number.

`c` = Service group number.

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`d` = Board number.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = Number of times the exercise is to be repeated. Default=32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The number of the phase that has the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = The number of the phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:DIST output message.

5. REFERENCES

Input Message(s):

```
STP:DIST
```

Output Message(s):

```
EX:DIST
```

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EX:DISTPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic service unit (MSU) / modular metallic service unit (MMSU) distribute point be exercised. Format 1 opens the distribute point, Format 2 closes the distribute point, and Format 3 sends pulses on the distribute point. This message is used for manual troubleshooting.

2. FORMAT

```
EX:DISTPT=a-b-c-d-e,{OPEN|CLOSE|PULSE=f};
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Metallic service unit number.

`c` = Service group number.

`d` = Board number. Valid value(s): `MSU` `MMSU`

`e` = Distribute point number.

`f` = Number of pulses to be sent.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the EX:DISTPT output message.

5. REFERENCES

Output Message(s):

`EX:DISTPT`

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EX:DLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the dual link interface (DLI) be exercised in a switching module (SM) on the specified office network and timing complex (ONTC) side in an interactive mode.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous input message (valid after a input message of Format 2 or 5).

Format 4 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 3.

Format 5 executes the requested phase or phases of a previously activated diagnostic program.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

NOTE: Use the STP:DLI message to terminate the exercise.

2. FORMAT

```
[1]    EX:DLI=a-b,START[,GROW];

[2]    EX:DLI=a-b[,UCL][,RAW],STEP=c[,TLP][,SYNCH=j-k-l];

[3]    EX:DLI=a-b;

[4]    EX:DLI=a-b[,UCL][,RAW][,RPT[=d]][,TLP];

[5]    EX:DLI=a-b[,UCL][,RAW][,RPT[=d]],PH=e-f&&g[,TLP];

[6]    EX:DLI=a-b,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`GROW` = If an SM is in the growth or special growth equipage state, this option must be input for an exercise to be run on that dual link interface (DLI).

`RAW` = Print the raw test results for each phase executed.

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`TLP` = Execute the trouble location procedure at the conclusion of the exercise. This process prints an ordered suspect pack list if a test fails.

`UCL` = Unconditionally print all test results rather than just printing the first failing phase.

`a` = SM number.

`b` = Office network and timing complex (ONTC) side.

`c` = Number of segments to be executed, beginning at the current point of suspension.

`d` = Number of times the test is to be repeated (default is 32,767).

`e` = Number of the phase to be executed.

`f` = Lower limit of a range of segment numbers.

`g` = Upper limit of a range of segments to be executed in the phase.

`h` = Number of the phase at which suspension of diagnostic execution is desired.

`i` = Number of the segment of phase at which suspension of diagnostic execution is desired.

`j` = The number of the phase that has statement '`g`' and segment '`f`'.

`k` The number of the segment that has statement '`g`'.

`l` = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by one or more DGN:DLI message(s).

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
ABT:DLI
DGN:DLI
STP:DLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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Output Message(s):

```
DGN:DLI
EX:DLI
```

Other Manual(s):
235-105-250 *System Recovery Procedures*

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EX:DUIC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a direct user interface controller (DUIC) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:DUIC=a[:[RAW][,UCL]],PH=b[,TLP][,CONT];
```

3. EXPLANATION OF MESSAGE

`RAW` = Prints all the diagnostic failures. Default is the first five failures.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Executes unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number.

`b` = Number of the phase to be executed.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:DUIC output message.

5. REFERENCES

Input Message(s):

```
DGN:DUIC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
```

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Output Message(s):

```
ANALY:TLPFILE
DGN:DUIC
EX:DUIC
```

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EX:EAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the equipment access network (EAN). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the EAN.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:EAN. The unit will remain out of service.

2. FORMAT

```
[1]    EX:EAN=a-b,START[,GROW];

[2]    EX:EAN=a-b[,UCL][,RAW][,SYNCH=h-i-j] ,STEP=f[,TLP];

[3]    EX:EAN=a-b;

[4]    EX:EAN=a-b[,UCL][,RAW][,SYNCH=h-i-j] [,RPT[=g]],PH=k-l[,TLP];

[5]    EX:EAN=a-b,PAUSE=m-n;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Directly connected test unit number in the SM.

`f` = The number of segments to be executed, beginning from the current point of suspension.

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`g` = Number of times the test is to be repeated. Default=32,767.

`h` = The number of the phase that has statement '`j`' and segment '`i`'.

`i` = The number of the segment that has statement '`j`'.

`j` = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

`k` = The number of the phase of the segment(s) to be executed.

`l` = The number of the segment or range of segments in phase '`k`' to be executed.

`m` = The number of the phase at which suspension of diagnostic execution is desired.

`n` = The number of the segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:EAN output message.

5. REFERENCES

Input Message(s):

```
STP:EAN
```

Output Message(s):

```
EX:EAN
```

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EX:FPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the foundation peripheral controller (FPC) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note 1: Use the STP:FPC message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

Note 2: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

```
[1]    EX:FPC=a,START;

[2]    EX:FPC=a[,UCL][,RAW],STEP=b[,TLP];

[3]    EX:FPC=a[,UCL][,RAW][,RPT[=c]],PH=d-e[&&f][,TLP];

[4]    EX:FPC=a;

[5]    EX:FPC=a[,UCL][,RAW][,RPT[=c]][,TLP];

[6]    EX:FPC=a,PAUSE=g-h;
```

3. EXPLANATION OF MESSAGE

`RAW` = Print raw test failure data.

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TLP = Print the ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test.

a = FPC side (0 or 1).

b = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

c = Number of times the exercise is to be repeated (default is 32,767). Ignore if the STEP option is specified.

d = The number of the phase to be executed.

e = The number of the segment in phase 'd' to be executed, or the lower limit in a range of segments.

f = Upper limit in a range of segments to be executed in phase 'd'.

g = The phase number at which suspension of the diagnostic execution is desired.

h = The segment of phase 'g' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:FPC output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:FPC
DGN:FPC
STP:FPC
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
EX:FPC
```

Other Manual(s):

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235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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EX:GDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the global digital services function (GDSF) circuit. This message is used primarily for manual troubleshooting. Technical support may be required to determine the phases, segments, or statements to be used for this input message. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

Format 1 activates a diagnostic program on the GDSF board. Format 2 executes a portion of a previously activated diagnostic program. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 resets the diagnostic option and begin executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use input message STP:GDSF. The unit will remain out of service.

2. FORMAT

```
[1]    EX:GDSF=a-b,START[,GROW];

[2]    EX:GDSF=a-b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=d]][,TLP];

[3]    EX:GDSF=a-b;

[4]    EX:GDSF=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];

[5]    EX:GDSF=a-b,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`UCL` = Execute unconditionally. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of segments to be executed, beginning from the current point of suspension.

`d` = Number of times the test is to be repeated. (default is 32,767).

`e` = The number of the phase that has statement '`g`' and segment '`f`' (SM units only).

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f = The number of the segment that has statement 'g' (SM units only).

g = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

h = The phase of the segment(s) to be executed.

i = The segment or range of segments in phase 'h' to be executed.

j = The number of the phase at which suspension of diagnostic execution is desired.

k = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:GDSF output message.

5. REFERENCES

Input Message(s):

```
STP:GDSF
```

Output Message(s):

```
EX:GDSF
```

Input Appendix(es):

```
APP:RANGES
```

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EX:GDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the global digital service circuit unit common (GDSUCOM) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GDSUCOM board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:GDSUCOM. The unit will remain out of service.

2. FORMAT

```
[1]    EX:GDSUCOM=a-b-c,START[,GROW];

[2]    EX:GDSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:GDSUCOM=a-b-c;

[4]    EX:GDSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];

[5]    EX:GDSUCOM=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Global digital service unit number.

`c` = Service group number.

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d = The number of segments to be executed, beginning from the current point of suspension.

e = Number of times the exercise is to be repeated. Default=32,767.

f = The number of the phase that has statement 'h' and segment 'g' (SM units only).

g = The number of the segment that has statement 'h' (SM units only).

h = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

i = The number of the phase of the segment(s) to be executed.

j = The number of the segment or range of segments in phase 'i' to be executed.

k = The number of the phase at which suspension of diagnostic execution is desired.

l = The number of the segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:GDSUCOM output message.

5. REFERENCES

Input Message(s):

```
STP:GDSUCOM
```

Output Message(s):

```
EX:GDSUCOM
```

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EX:GDXACC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostic (exercises) of the gated diode crosspoint access (GDXACC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GDXACC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:GDXACC input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:GDXACC=a-b-c,START[,GROW];

[2]    EX:GDXACC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:GDXACC=a-b-c;

[4]    EX:GDXACC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];

[5]    EX:GDXACC=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Line unit number in the SM.

`c` = Service group number.

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`d` = The number of segments to be executed, beginning from the current point of suspension.

`e` = Number of times the test is to be repeated. Default=32,767.

`f` = The number of the phase that has statement '`h`' and segment '`g`' (SM units only).

`g` = The number of the segment that has statement '`h`' (SM units only).

`h` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`i` = The number of the phase of the segment(s) to be executed.

`j` = The number of the segment or range of segments in phase '`i`' to be executed.

`k` = The number of the phase at which suspension of diagnostic execution is desired.

`l` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:GDXACC output message.

5. REFERENCES

Input Message(s):

`STP:GDXACC`

Output Message(s):

`EX:GDXACC`

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EX:GDXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the gated diode crosspoint compensator (GDXC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GDXC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:GDXC input message. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:GDXC=a-b-c-d,START[,GROW];

[2]    EX:GDXC=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:GDXC=a-b-c-d;

[4]    EX:GDXC=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5]    EX:GDXC=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Metallic service unit number.

`c` = Service group number.

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`d` = Board number.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = Number of times the test is to be repeated. Default=32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The number of the phase of the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = The number of the phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:GDXC output message.

5. REFERENCES

Input Message(s):

```
STP:GDXC
```

Output Message(s):

```
EX:GDXC
```

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EX:GDXCON

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostic (exercises) of the gated diode crosspoint control (GDXCON). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GDXCON.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:GDXCON. The unit will remain out of service.

2. FORMAT

```
[1]    EX:GDXCON=a-b-c,START[,GROW];

[2]    EX:GDXCON=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:GDXCON=a-b-c;

[4]    EX:GDXCON=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];

[5]    EX:GDXCON=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Line unit number in the SM.

`c` = Service group number.

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`d` = The number of segments to execute, beginning from the current point of suspension.

`e` = Number of times the test is to be repeated. Default=32,767.

`f` = The number of the phase that has statement '`h`' and segment '`g`' (SM units only).

`g` = The number of the segment that has statement '`h`' (SM units only).

`h` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`i` = The number of the phase of the segment(s) to be executed.

`j` = The number of the segment or range of segments in phase '`i`' to be executed.

`k` = The number of the phase at which suspension of diagnostic execution is desired.

`l` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:GDXCON output message.

5. REFERENCES

Input Message(s):

```
STP:GDXCON
```

Output Message(s):

```
EX:GDXCON
```

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EX:GRID

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostic (exercises) of the gated diode crosspoint grid (GRID). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GRID.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 execute a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:GRID. The unit will remain out of service.

2. FORMAT

```
[1]    EX:GRID=a-b-c,START[,GROW];

[2]    EX:GRID=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:GRID=a-b-c;

[4]    EX:GRID=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]] ,PH=i-j[,TLP];

[5]    EX:GRID=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Line unit number on the SM.

`c` = Grid number.

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`d` = The number of segments to execute, beginning from the current point of suspension.

`e` = Number of times the test is to be repeated. Default=32,767.

`f` = The number of the phase that has statement '`h`' and segment '`g`' (SM units only).

`g` = The number of the segment that has statement '`h`' (SM units only).

`h` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`i` = The number of the phase of the segment(s) to be executed.

`j` = The number of the segment or range of segments in phase '`i`' to be executed.

`k` = The number of the phase at which suspension of diagnostic execution is desired.

`l` = The number of the segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:GRID output message.

5. REFERENCES

Input Message(s):

```
STP:GRID
```

Output Message(s):

```
EX:GRID
```

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EX:GRIDBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostic (exercises) of the line unit model 2 (LU2) or line unit model 3 (LU3) grid board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the grid board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:GRIDBD input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:GRIDBD=a-b-c-d,START[,GROW];

[2]    EX:GRIDBD=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g],STEP=h[,TLP];

[3]    EX:GRIDBD=a-b-c-d;

[4]    EX:GRIDBD=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=i]],PH=j-k[&&l]
       [,TLP];

[5]    EX:GRIDBD=a-b-c-d,PAUSE=m-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Line unit number.

`c` = Grid number. Valid value(s):

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LU2	= 0-7
LU3	= 0-9

d = Board number.

e = The number of the phase that has statement 'g' and segment 'f'.

f = The number of the segment that has statement 'g'.

g = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

h = The number of segments to execute, beginning from the current point of suspension.

i = The number of times the test is to be repeated. If 'i' is not specified, the test will be repeated 32,767 times.

j = The number of the phase of the segment(s) to be executed.

k = The number of the segment or lower segment of range of segments in phase 'j' to be executed.

l = Upper limit of segment range.

m = The number of the phase at which suspension of diagnostic execution is desired.

n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the EX:GRIDBD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:GRIDBD
```

Output Message(s):

```
EX:GRIDBD
```

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EX:HDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs maintenance exercises on the host switching module (HSM) digital facilities interface (HDFI) circuit. This message is used for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the HDFI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 3 inverts the state of a previously activated diagnostic from running to suspended or vice versa.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:HDFI input message. The circuit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:HDFI=a-b-c,START[,GROW];

[2]    EX:HDFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:HDFI=a-b-c;

[4]    EX:HDFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];

[5]    EX:HDFI=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered circuit pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number.

`c` = HDFI number.

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`d` = The number of segments to be executed, beginning from the current point of suspension.

`e` = Number of times the test is to be repeated. Default is 32,767.

`f` = Number of the phase that has statement '`h`' and segment '`g`'.

`g` = Number of the segment in phase '`f`' that has statement '`h`'.

`h` = Number of the statement in segment '`g`' of phase '`f`'; at the beginning of this statement a synchronizing pulse is to be generated.

`i` = Number of the phase that has the segment(s) to be executed.

`j` = Number segment or range of segments in phase '`i`' to be executed.

`k` = Number phase in which suspension of diagnostic execution is desired.

`l` = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the EX:HDFI output message.

5. REFERENCES

Input Message(s):

```
STP:HDFI
```

Output Message(s):

```
EX:HDFI
```

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EX:HSDC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a high-speed synchronous datalink controller (HSDC) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:HSDC=a[:[RAW][,UCL]],PH=b[,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Prints all the diagnostic failures. Default is the first five failures.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Executes unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number.

`b` = Number of the phase to be executed.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:HSDC output message.

5. REFERENCES

Input Message(s):

```
DGN:HSDC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
```

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Output Message(s):

```
ANALY:TLPFILE
DGN:HSDC
EX:HSDC
```

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EX:IDCU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) service group circuit be interactively diagnosed. This message is used primarily for manual troubleshooting. To stop any of these exercises, use the input message STP:IDCU. The unit will remain in the out-of-service (OOS) state.

Format 1 must be entered before entering other format requests.

Format 2 resets the diagnostic options and begins executing a portion of a previously-activated diagnostic program until the specified number of segments have been performed.

Format 3 inverts the state (from "running" to "suspended" or vice-versa) of the previously-activated diagnostic program.

Format 4 executes a portion of the previously-activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously-activated diagnostic program, ignoring interim test failures.

2. FORMAT

```
[1]    EX:IDCU=a-b-c,START[,GROW];

[2]    EX:IDCU=a-b-c[,UCL][,RAW][,SYNCH=d-e-f],STEP=g[,TLP];

[3]    EX:IDCU=a-b-c;

[4]    EX:IDCU=a-b-c[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=h]],PH=i-j[,TLP];

[5]    EX:IDCU=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow diagnostic access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Trouble location procedure. Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures.

`a` = Switching module number.

`b` = IDCU number.

`c` = IDCU service group number.

`d` = The phase that has segment '`e`' and statement '`f`'.

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`e` = The segment that has the '`f`' statement.

`f` = The statement at the beginning of which a synchronizing pulse is to be generated.

`g` = The number of segments to execute beginning from the current point of suspension.

`h` = Number of times the test is to be repeated (RPT). Default is 32,767 times.

`i` = The number of the phase of the segments to be executed.

`j` = The segment number or range of segments in phase '`j`' to be executed.

`k` = The phase at which suspension of diagnostic execution is desired.

`l` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:IDCU output message.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IDCU
STP:IDCU
```

Output Message(s):

```
EX:IDCU
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

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EX:IOP

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises an input/output processor (IOP) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:IOP=a[:[RAW][,UCL]],PH=b[,TLP][,CU=c];
```

3. EXPLANATION OF MESSAGE

`RAW` = Prints all the diagnostic failures. Default is the first five failures.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Executes unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number.

`b` = Number of the phase to be executed.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP EX:PAUSE, EX:STEP and EX:STOP input messages are input.

`c` = Member number of the CU helper unit. When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

NOTE: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:IOP output message.

5. REFERENCES

Input Message(s):

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```
DGN:IOP
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:IOP
EX:IOP
```

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EX:ISLUCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit common controller (ISLUCC) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLUCC.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLUCC input message. This unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:ISLUCC=a-b-c,START[,GROW];

[2]    EX:ISLUCC=a-b-c,PH=d-e[&&f][,RPT[=j]][,SYNCH=k-l-m][,RAW]
       [,TLP][,UCL];

[3]    EX:ISLUCC=a-b-c,STEP=g[,SYNCH=k-l-m][,RAW][,TLP][,UCL];

[4]    EX:ISLUCC=a-b-c;

[5]    EX:ISLUCC=a-b-c,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number.

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`c` = Common controller number.

`d` = The number of the phase (PH) that has the segment(s) to be executed.

`e` = The segment number or lower limit of a range of segments numbers in phase '`d`' to be executed.

`f` = The upper limit of a range of segment numbers.

`g` = The number of the segments to be executed, beginning from the current point of suspension.

`h` = The number of the phase at which suspension of diagnostic execution is desired.

`i` = The number of the segment at which suspension of diagnostic execution is desired.

`j` = The number of times the exercise is to be repeated (1-32676). If '`j`' is not specified, the exercise will be repeated 32,767 times.

`k` = The number of the phase that has statement '`m`' and segment '`l`'.

`l` = The segment number that has statement '`m`'.

`m` = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the EX ISLUCC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ
STP:ISLUCC
```

Output Message(s):

```
EX:ISLUCC
```

MCC Display Page(s):

ISLU Network - 170x where x = ISLU Number (0-7)
ISLU Line Group - 170xy y = LGC Number (0-15)

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EX:ISLUCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit common data (ISLUCD) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLUCD.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLUCD input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:ISLUCD=a-b-c,START[,CAMPON=j][,GROW];

[2]    EX:ISLUCD=a-b-c,PH=d-e[&&f][,RPT[=k]][,SYNCH=l-m-n][,RAW]
       [,TLP][,UCL];

[3]    EX:ISLUCD=a-b-c,STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];

[4]    EX:ISLUCD=a-b-c;

[5]    EX:ISLUCD=a-b-c,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number.

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c = Common data number.

d = The number of the phase that has the segment(s) to be executed.

e = The segment number or lower limit of a range of segment numbers in phase 'd' to be executed.

f = The upper limit of a range of segment numbers.

g = The number of segments to be executed, beginning from the current point of suspension.

h = The number of the phase at which suspension of diagnostic execution is desired.

i = The number of the segment at which suspension of diagnostic execution is desired.

j = Camp-on time in minutes. If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

k = The number of times the exercise is to be repeated (1-32676). If 'k' is not specified, the test will be repeated 32,767 times.

l = The number of the phase that has statement 'n' and segment 'm'.

m = The segment number that has statement 'n'.

n = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the EX ISLUCD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ
STP:ISLUCD
```

Output Message(s):

```
EX:ISLUCD
```

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EX:ISLUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the integrated services line unit high level service circuit (ISLUHLSC). This message is used primarily for manual troubleshooting.

Format 1 must be entered first prior to entering other format requests.

Format 1 activates a diagnostic program on the ISLUHLSC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running the suspended or vice-versa) of the previously activated diagnostic program.

Format 4 executes a portion of the previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLUHLSC input message. The unit will remain out-of-service (OOS) after the stop input message completes.

2. FORMAT

```
[1]    EX:ISLUHLSC=a-b-c-d,START[,GROW];

[2]    EX:ISLUHLSC=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g],STEP=h[,TLP];

[3]    EX:ISLUHLSC=a-b-c-d;

[4]    EX:ISLUHLSC=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=h]],PH=i-j
       [,TLP];

[5]    EX:ISLUHLSC=a-b-c-d,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow diagnostic access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Execute unconditionally and print all test failures.

`a` = Switching module (SM) number.

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b = ISLU number.

c = ISLU service group.

d = High level service circuit.

e = The number of the phase that has statement 'f' and segment 'g'.

f = The number of the segment that has the 'g' statement.

g = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

h = The number of segments to be executed beginning from the current point of suspension.

i = The number of the phase of the segments to be executed.

j = The segment or range of segments in phase 'j' to be executed.

k = The number of the phase at which suspension of diagnostics execution is desired.

l = The segment number at which suspension of diagnostics execution is desired.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:ISLUHLSC output message.

NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:ISLUHLSC
```

Output Message(s):

```
EX:ISLUHLSC
```

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EX:ISLULBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line board (ISLULBD) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLULBD.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLULBD input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:ISLULBD=a-b-c-d,START[,CAMPON=k][,GROW];

[2]    EX:ISLULBD=a-b-c-d,PH=e-f[&&g][,RPT[=l]][,SYNCH=m-n-o][,RAW]
       [,TLP][,UCL];

[3]    EX:ISLULBD=a-b-c-d,STEP=h[,SYNCH=m-n-o][,RAW][,TLP][,UCL];

[4]    EX:ISLULBD=a-b-c-d;

[5]    EX:ISLULBD=a-b-c-d,PAUSE=i-j;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`c` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of the phase that has the segment(s) to be executed.

`f` = The segment number or the lower limit of a range of segments numbers in phase 'e' to be executed.

`g` = The upper limit of a range of segment numbers.

`h` = The number of segments to be executed, beginning from the current point of suspension.

`i` = The number of the phase at which suspension of diagnostic execution is desired.

`j` = The number of the segment at which suspension of diagnostic execution is desired.

`k` = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

`l` = The number of times the exercise is to be repeated (1-32676). If '`l`' is not specified, the test will be repeated 32,767 times.

`m` = The number of the phase that has statement '`o`' and segment '`n`'.

`n` = The number of the segment that has statement '`o`'.

`o` = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the EX ISLULBD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ
STP:ISLULBD
```

Output Message(s):

```
EX:ISLULBD
```

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EX:ISLULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line card (ISLULC) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLULC.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLULC input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:ISLULC=a-b-c-d,START[,CAMPON=k][,GROW];

[2]    EX:ISLULC=a-b-c-d,PH=e-f[&&g][,RPT[=l]][,SYNCH=m-n-o][,RAW]
       [,TLP][,UCL];

[3]    EX:ISLULC=a-b-c-d,STEP=h[,SYNCH=m-n-o][,RAW][,TLP][,UCL];

[4]    EX:ISLULC=a-b-c-d;

[5]    EX:ISLULC=a-b-c-d,PAUSE=i-j;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number.

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c = Line group controller number.

d = Line card number.

e = The number of the phase that has the segment(s) to be executed.

f = The segment number or the lower limit of a range of segments numbers in phase 'e' to be executed.

g = The upper limit of a range of segment numbers.

h = The number of segments to be executed, beginning from the current point of suspension.

i = The number of the phase at which suspension of diagnostic execution is desired.

j = The number of the segment at which suspension of diagnostic execution is desired.

k = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

l = The number of times the exercise is to be repeated (1-32676). If 'l' is not specified, the test will be repeated 32,767 times.

m = The number of the phase that has statement 'o' and segment 'n'.

n = The number of the segment that has statement 'o'.

o = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the EX ISLULC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ
STP:ISLULC
```

Output Message(s):

```
EX:ISLULC
```

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EX:ISLULCKT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line circuit (ISLULCKT) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLULCKT.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLULCKT input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:ISLULCKT=a-b-c-d-e,START[,CAMPON=l][,GROW];

[2]    EX:ISLULCKT=a-b-c-d-e,PH=f-g[&&h][,RPT[=m]][,SYNCH=n-o-p][,RAW]
       [,TLP][,UCL];

[3]    EX:ISLULCKT=a-b-c-d-e,STEP=i[,SYNCH=n-o-p][,RAW][,TLP][,UCL];

[4]    EX:ISLULCKT=a-b-c-d-e;

[5]    EX:ISLULCKT=a-b-c-d-e,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`c` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = The number of the phase that has the segment(s) to be executed.

`g` = The segment number or the lower limit of a range of segments numbers in phase 'e' to be executed.

`h` = The upper limit of a range of segment numbers.

`i` = The number of segments to be executed, beginning from the current point of suspension.

`j` = The number of the phase at which suspension of diagnostic execution is desired.

`k` = The number of the segment at which suspension of diagnostic execution is desired.

`l` = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

`m` = The number of times the exercise is to be repeated (1-32676). If '`m`' is not specified, the test will be repeated 32,767 times.

`n` = The number of the phase that has statement '`p`' and segment '`o`'.

`o` = The number of the segment that has statement '`p`'.

`p` = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the EX ISLULCKT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ
STP:ISLULCKT
```

Output Message(s):

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```
EX:ISLULCKT
```

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EX:ISLULGC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests an integrated services line unit line group controller (ISLULGC) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLULGC.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLULGC input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:ISLULGC=a-b-c,START[,CAMPON=j][,GROW];

[2]    EX:ISLULGC=a-b-c,PH=d-e[&&f][,RPT[=k]][,SYNCH=l-m-n][,RAW]
       [,TLP][,UCL];

[3]    EX:ISLULGC=a-b-c,STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];

[4]    EX:ISLULGC=a-b-c;

[5]    EX:ISLULGC=a-b-c,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Execute and print all test failures unconditionally, rather than stopping after the first test failure.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number.

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c = Line group controller number.

d = The number of the phase that has the segment(s) to be executed.

e = The segment number or the lower limit of a range of segment numbers in phase 'd' to be executed.

f = The upper limit of a range of segment numbers.

g = The number of the segments to be executed, beginning from the current point of suspension.

h = The number of the phase at which suspension of diagnostic execution is desired.

i = The number of the segment at which suspension of diagnostic execution is desired.

j = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

k = The number of times the exercise is to be repeated (1-32676). If 'k' is not specified, the test will be repeated 32,767 times.

l = The number of the phase that has statement 'n' and segment 'm'.

m = The number of the segment that has statement 'n'.

n = The numbers of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the EX ISLULGC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ
STP:ISLULGC
```

Output Message(s):

```
EX:ISLULGC
```

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EX:ISLUMAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the integrated services line unit metallic access network (ISLUMAN). This message is used primarily for manual troubleshooting.

Format 1 must be entered first prior to entering other format requests.

Format 1 activates a diagnostic program on the ISLUMAN.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice-versa) of the previously activated diagnostic program.

Format 4 executes a portion of the previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLUMAN input message. The unit will remain out-of-service (OOS) after the stop input message completes.

2. FORMAT

```
[1]    EX:ISLUMAN=a-b-c-d,START[,GROW];

[2]    EX:ISLUMAN=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g],STEP=h[,TLP];

[3]    EX:ISLUMAN=a-b-c-d;

[4]    EX:ISLUMAN=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=h]],PH=i-j
       [,TLP];

[5]    EX:ISLUMAN=a-b-c-d,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow diagnostic access to growth equip.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Execute unconditionally and print all test failures.

`a` = Switching module (SM) number.

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b = ISLU number.

c = ISLU service group.

d = Access network board.

e = The number of the phase that has statement 'f' and segment 'g'.

f = The number of the segment that has the 'g' statement.

g = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

h = The number of segments to be executed beginning from the current point of suspension.

i = The number of the phase of the segments to be executed.

j = The number of the segment or range of segments in phase 'j' to be executed.

k = The number of the phase at which suspension of diagnostics execution is desired.

l = The segment number at which suspension of diagnostics execution is desired.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:ISLUMAN output message.

NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:ISLUMAN
```

Output Message(s):

```
EX:ISLUMAN
```

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EX:ISLURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the integrated services line unit ringing generator (ISLURG). This message is used primarily for manual troubleshooting.

Format 1 must be entered before entering other format requests.

Format 1 activates a diagnostic program on the ISLURG.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice-versa) of the previously activated diagnostic program.

Format 4 executes a portion of the previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLURG input message. The unit will remain out-of-service (OOS) after the stop input message completes.

2. FORMAT

```
[1]    EX:ISLURG=a-b-c,START[,GROW];

[2]    EX:ISLURG=a-b-c[,UCL][,RAW][,SYNCH=d-e-f],STEP=g[,TLP];

[3]    EX:ISLURG=a-b-c;

[4]    EX:ISLURG=a-b-c[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=g]],PH=h-i
       [,TLP];

[5]    EX:ISLURG=a-b-c,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow diagnostic access to growth equip.

`RAW` = Print raw test failure data.

`TLP` = Print the ordered pack list.

`UCL` = Execute unconditionally and print all test failures.

`a` = Switching module (SM) number.

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`b` = ISLU number.

`c` = ISLU service group.

`d` = The number of the phase that has statement '`e`' and segment '`f`'.

`e` = The number of the segment that has the `'t'` statement.

`f` = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

`g` = The number of segments to be executed beginning from the current point of suspension.

`h` = The number of the phase of the segments to be executed.

`i` = The number of the segment or range of segments in phase '`i`' to be executed.

`j` = The number of the phase at which suspension of diagnostics execution is desired.

`k` = The segment number at which suspension of diagnostics execution is desired.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:ISLURG output message.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:ISLURG
```

Output Message(s):

```
EX:ISLURG
```

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EX:ISTF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the integrated services test function (ISTF) unit. This message is used primarily for manual troubleshooting. The exercise is only performed once unless the RPT option is specified.

Format 1 activates a diagnostic program on the ISTF unit.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop the exercise, use the "STP:EX,ISTF" form of the STP:ISTF input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:ISTF=a-b,START[,GROW];

[2]    EX:ISTF=a=b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=d]][,TLP];

[3]    EX:ISTF=a-b;

[4]    EX:ISTF=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];

[5]    EX:ISTF=a-b,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the order pack list.

`UCL` = Execute unconditionally. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number.

`b` = ISTF unit number.

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`c` = The number of segments to be executed, beginning from the current point of suspension.

`d` = The number of times the test is to be repeated. If '`d`' is not specified, the test will be repeated 32,767 times.

`e` = The number of the phase that has statement '`g`' and segment '`f`' (SM units only).

`f` = The number of the segment that has statement '`g`' (SM units only).

`g` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`h` = The number of the phase of the segment(s) to be executed.

`i` = The segment or range of segments in phase '`h`' to be executed.

`j` = The number of the phase at which suspension of diagnostic execution is desired.

`k` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the EX:ISTF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

`NG` = No good. The request has been denied because it conflicts with current equipment status.
- `UNIT DOES NOT EXIST` = No good. The requested unit does not exist in the system.
- `SM DOES NOT EXIST` = No good. The requested SM does not exist in the system.
- `UNEQUIPPED` = No good. The SM specified in the request is unequipped.

5. REFERENCES

Input Message(s):

```
STP:ISTF
```

Output Message(s):

```
EX:ISTF
```

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EX:LDPARM

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests to execute the main store (MAS) diagnostic phase with user-supplied address range, refresh rate, number of failures to be collected, data pattern (phase 95), words per array to copy (phase 96), and refresh parity check time (phase 96). This message can only be used with MAS diagnostic phase 95 or 96.

NOTE: To use this input message, first invoke the interactive diagnostics. For example:

```
EX:CU=a,MASC b:ph c;
```

2. FORMAT

```
EX:LDPARM:CU=a,MASC=b[,SA=h][,EA=i][,REF=j][,FNUM=k][,PAT=l][,WPA=m]
[,TIME=n];
```

3. EXPLANATION OF MESSAGE

`a` = Member number.

`b` = Member number of the main store controller (MASC) beneath the CU.

`c` = Executes the specified phase.

`h` = Starting address for the main store exercise, in hexadecimal notation. Default=0.

`i` = End address for the MAS exercise, in hexadecimal notation. Default=all equipped memory in controller under test.

`j` = Memory refresh rate used in the MAS exercise, in decimal notation. Default = 4 ms. Possible values are 2, 4, 6, 8, 10, 12, 14, 16, 32, 36, 40, 44, 48, 52, 56, or 60 ms. Memory devices are guaranteed to work at a refresh rate of 4 ms or less when the memory device case temperature is between 0 degrees C and 85 degrees C.

`k` = Number of failures for which data is to be collected. Default = 100.

`l` = 32 bit data pattern used in the MAS exercise (phase 95), in hexadecimal notation. Default=0xffffffff.

`m` = Number of words per memory array to copy from the on-line CU, in hexadecimal notation (phase 96). Default= all words in each array.

`n` = Duration of time, in seconds, for which refresh data parity checks should be run to scan for errors in the MASC under test (phase 96). Default=34 seconds for TN14 MASAs, 68 seconds for TN28, TN56, TN2012 MASAs, 136 seconds for TN56 MASAs with either extended main memory (EMM) or very large main memory (VLMM) features, 136 seconds for TN2012 MASAs with EMM feature, or 272 seconds for TN2012 MASAs with VLMM feature.

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4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:LDPARM output message.

RL = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

DGN:CU
EX:CU
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPFILE
DGN:CU
EX:CU
EX:LDPARM

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EX:LDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the local digital service function (LDSF) circuit. This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the LDSF board.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begin executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:LDSF. The unit will remain out of service.

2. FORMAT

```
[1]    EX:LDSF=a-b,START[,GROW];

[2]    EX:LDSF=a-b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=d]][,TLP];

[3]    EX:LDSF=a-b;

[4]    EX:LDSF=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];

[5]    EX:LDSF=a-b,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`UCL` = Execute unconditionally. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of segments to be executed, beginning from the current point of suspension.

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`d` = Number of times the test is to be repeated. (default is 32,767).

`e` = The number of the phase that has statement '`g`' and segment '`f`' (SM units only).

`f` = The number of the segment that has statement '`g`' (SM units only).

`g` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`h` = The phase of the segment(s) to be executed.

`i` = The segment or range of segments in phase '`h`' to be executed.

`j` = The number of the phase at which suspension of diagnostic execution is desired.

`k` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:LDSF output message.

5. REFERENCES

Input Message(s):

```
STP:LDSF
```

Output Message(s):

```
EX:LDSF
```

Input Appendix(es):

```
APP:RANGES
```

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EX:LDSU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the local digital service unit - model 2 (LDSU2) board. This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the LDSU2 board.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begin executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:LDSU. The unit will remain out of service.

2. FORMAT

```
[1]    EX:LDSU=a-b-c,START[,GROW];

[2]    EX:LDSU=a-b-c,PH=i-j[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]][,TLP];

[3]    EX:LDSU=a-b-c;

[4]    EX:LDSU=a-b-c,STEP=d[,UCL][,RAW][,SYNCH=f-g-h][,TLP];

[5]    EX:LDSU=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`UCL` = Execute unconditionally. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number.

`b` = Local digital service unit number.

`c` = Service group number.

`d` = The number of segments to be executed, beginning from the current point of suspension.

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`e` = Number of times the test is to be repeated. (default is 32,767).

`f` = The number of the phase that has statement '`h`' and segment '`g`' (SM units only).

`g` = The number of the segment that has statement '`h`' (SM units only).

`h` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`i` = The phase of the segment(s) to be executed.

`j` = The segment or range of segments in phase '`i`' to be executed.

`k` = The number of the phase at which suspension of diagnostic execution is desired.

`l` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:LDSU output message.

5. REFERENCES

Input Message(s):

```
STP:LDSU
```

Output Message(s):

```
EX:LDSU
```

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EX:LDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the local digital service circuit common (LDSUCOM) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the LDSUCOM board.

Format 2 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:LDSUCOM. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:LDSUCOM=a-b-c,START[,GROW];

[2]    EX:LDSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:LDSUCOM=a-b-c;

[4]    EX:LDSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j
       [,TLP];

[5]    EX:LDSUCOM=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Local digital service unit number.

`c` = Service group number.

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`d` = The number of segments to execute, beginning from the current point of suspension.

`e` = Number of times the exercise is to be repeated. Default=32,767.

`f` = The number of the phase that has statement '`h`' and segment '`g`' (SM units only).

`g` = The number of the segment that has statement '`h`' (SM units only).

`h` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`i` = The number of the phase of the segment(s) to be executed.

`j` = The number of the segment or range of segments in phase '`i`' to be executed.

`k` = The number of the phase at which suspension of diagnostic execution is desired.

`l` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:LDSUCOM output message.

5. REFERENCES

Input Message(s):

```
STP:LDSUCOM
```

Output Message(s):

```
EX:LDSUCOM
```

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EX:LI

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Requests that the link interface (LI) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

NOTE: Use the STP:LI message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

2. FORMAT

```
[1]    EX:LI=a,START[,HELPER=b];

[2]    EX:LI=a[,UCL][,RAW],STEP=c[,TLP];

[3]    EX:LI=a[,UCL][,RAW][,RPT[=d]],PH=e-f[&&g][,TLP];

[4]    EX:LI=a;

[5]    EX:LI=a[,UCL][,RAW][,RPT[=d]][,TLP];

[6]    EX:LI=a,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list if a test fails.

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`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`a` = LI side.

`b` = Foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

`c` = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

`d` = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

`e` = The number of the phase to be executed.

`f` = The number of segment in phase '`e`' to be executed, or the lower limit in a range of segments.

`g` = Upper limit in a range of segments to be executed in phase '`e`'.

`h` = The phase number at which suspension of the diagnostic execution is desired.

`i` = The segment of phase '`h`' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the EX:LI output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:LI
DGN:LI
STP:LI
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
EX:LI
```

Other Manual(s):

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235-105-210 *Routine Operations and Maintenance*

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EX:LN

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the exercise of a link node (LN) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages in the Input Messages manual.

Four sequential system actions are performed in response to this input message.

A = The LN is removed from service following the rules for the RMV:LN input message.

B = If the resultant LN major state is out-of-service (OOS), growth (GROW), offline (OFL), or unavailable (UNAV), an attempt is made to isolate the LN. For other major states the diagnostic is aborted by the diagnostic monitor (DIAMON).

C = The specified diagnostic phases are run.

D = If the LN was in the active ring before the start of the diagnostics and was successfully isolated (in 2 above), then at the conclusion of the diagnostic execution an attempt is made to include the LN back into the active ring. Otherwise the node is left in its original ring configuration state. The LN remains in the OOS, GROW, OFL, or UNAV state.

2. FORMAT

```
EX:LNa=b:PH=c;
```

3. EXPLANATION OF MESSAGE

a = Ring node (RN) group number.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Phase number.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages are input.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:LN output message.

5. REFERENCES

Input Message(s):

DGN:LN

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```
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
RMV:LN
```

Output Message(s):

```
DGN:LN
EX:LN
```

Other Manual(s):
235-190-120 *Common Channel Signaling and Associated Signaling Service Features*

MCC Display Page(s):

118 (CNI RING STATUS)
1520 (RING NODE STATUS)

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EX:LOOP

Software Release: 5E15 and later
Command Group: AM,CCS
Application: 5,3B
Type: Input

1. PURPOSE

Requests to perform a specified group of diagnostic tasks repeatedly. This message puts the diagnostic in a loop between the specified statement numbers.

NOTE: To use this input message, first invoke the interactive diagnostics. For example: `EX:a[,b],ph=c;`

2. FORMAT

```
EX:LOOP:a[,b],ST=f&&g;
```

3. EXPLANATION OF MESSAGE

`a` = Unit type and member number of the unit on which interactive diagnostics was started. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for valid unit names and member numbers.

`b` = Unit type and member number of the subunit, if any. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for valid subunit names and member numbers.

`c` = Executes the specified phase.

`f` = Statement lower boundary of an exercise loop.

`g` = Statement upper boundary of an exercise loop.

`h` = Name of unit on which interactive diagnostics was started.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:LOOP output message.

`RL` = Retry later. The system is in an overload condition.

`?I` = General syntax error followed by the parameter position and one of the following reasons:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING KEYWORD` = A required keyword is missing from the input.

`?D` = General syntax error in the data field followed by the parameter position and one of the following reasons:
- `EXTA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING DATA` = Data required for the statement keyword was not found on the input line.

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- `MISSING KEYWORD` = A required keyword is missing from the input.
- `RANGE ERROR` = Not a valid range for the statement parameter.

`?E` = Input error of undetermined typed.

5. REFERENCES

Input Message(s):

```
EX:CU
EX:DCI
EX:DFC
EX:DUIC
EX:HSDC
EX:IOP
EX:MHD
EX:MTC
EX:MTTYC
EX:PAUSE
EX:SCSDC
EX:SDLC
EX:STEP
EX:STOP
EX:TTYC
STOP:DMQ
STP:DMQ
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

Output Message(s):

```
ANALY:TLPFILE
EX:LOOP
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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EX:LUCHAN

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the line unit channel (LUCHAN). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the LUCHAN. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:LUCHAN input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:LUCHAN=a-b-c-d-e,START[,GROW];

[2]    EX:LUCHAN=a-b-c-d-e[,UCL][,RAW][,SYNCH=h-i-j],STEP=f[,TLP];

[3]    EX:LUCHAN=a-b-c-d-e;

[4]    EX:LUCHAN=a-b-c-d-e[,UCL][,RAW][,SYNCH=h-i-j][,RPT[=g]],PH=k-l
       [,TLP];

[5]    EX:LUCHAN=a-b-c-d-e,PAUSE=m-n;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Line unit number in the SM.

`c` = Service group number.

`d` = Channel board number.

`e` = Channel number.

`f` = The number of segments to be executed, beginning from the current point of suspension.

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`g` = Number of times the test is to be repeated. Default=32,767.

`h` = The number of the phase that has statement '`j`' and segment '`i`' (SM units only).

`i` = The number of the segment that has statement '`j`' (SM units only).

`j` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`k` = The number of the phase of the segment(s) to be executed.

`l` = The segment or range of segments in phase '`k`' to be executed.

`m` = The phase at which suspension of diagnostic execution is desired.

`n` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:LUCHAN output message.

5. REFERENCES

Input Message(s):

```
STP:LUCHAN
```

Output Message(s):

```
EX:LUCHAN
```

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EX:LUCOMC

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the line unit common control (LUCOMC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the LUCOMC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:LUCOMC. The unit will remain out-of service (OOS).

2. FORMAT

```
[1]    EX:LUCOMC=a-b-c,START[,GROW];

[2]    EX:LUCOMC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:LUCOMC=a-b-c;

[4]    EX:LUCOMC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j
       [,TLP];

[5]    EX:LUCOMC=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Line unit number in the SM.

`c` = Service group number.

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d = The number of segments to be executed, beginning from the current point of suspension.

e = Number of times the test is to be repeated. Default=32,767.

f = The number of the phase that has statement 'h' and segment 'g' (SM units only).

g = The number of the segment that has statement 'h' (SM units only).

h = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

i = The number of the phase of the segment(s) to be executed.

j = The segment or range of segments in phase 'i' to be executed.

k = The number of the phase at which suspension of diagnostic execution is desired.

l = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:LUCOMC output message.

5. REFERENCES

Input Message(s):

```
STP:LUCOMC
```

Output Message(s):

```
EX:LUCOMC
```

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EX:LUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the line unit high level service circuit (LUHLSC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the LUHLSC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:LUHLSC input message. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:LUHLSC=a-b-c-d,START[,GROW];

[2]    EX:LUHLSC=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:LUHLSC=a-b-c-d;

[4]    EX:LUHLSC=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5]    EX:LUHLSC=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Line unit number in the SM.

`c` = Service group number.

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`d` = High level service circuit number.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = Number of times the test is to be repeated. Default=32,767.

`g` = Number of the phase that contains statement '`i`' and segment '`h`' (SM units only).

`h` = Number of the segment that contains statement '`i`' (SM units only).

`i` = Number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The number of the phase that has the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = The number of the phase at which suspension of diagnostic execution is desired.

`m` = The number of the segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:LUHLSC output message.

5. REFERENCES

Input Message(s):

```
STP:LUHLSC
```

Output Message(s):

```
EX:LUHLSC
```

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EX:MA

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the metallic access (MA) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MA board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:MA. The unit will remain out of service.

2. FORMAT

```
[1]    EX:MA=a-b-c-d,START[,GROW];

[2]    EX:MA=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:MA=a-b-c-d;

[4]    EX:MA=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5]    EX:MA=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Metallic service unit number.

`c` = Service group number.

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`d` = Board number.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = Number of times the exercise is to be repeated. Default=32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The number of the phase of the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = The number of the phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:MA output message.

5. REFERENCES

Input Message(s):

```
STP:MA
```

Output Message(s):

```
EX:MA
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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EX:MAB

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Requests that the metallic access bus (MAB) be exercised to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MAB. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:MAB input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:MAB=a-b-c-d,START[,GROW];

[2]    EX:MAB=a-b-c-d[,RAW][,UCL][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:MAB=a-b-c-d;

[4]    EX:MAB=a-b-c-d[,RAW][,UCL][,RPT[=f]][,SYNCH=g-h-i][,PH={j|(j-k)}]
       [,TLP];

[5]    EX:MAB=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Unit number.

`c` = Service group number.

`d` = Board number.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = The number of times the exercise is to be repeated. Default is 32,767.

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`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronous pulse is to be generated (SM units only).

`j` = The number of the phase of the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = The number of the phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the EX:MAB output message.

5. REFERENCES

Input Message(s):

`STP:MAB`

Output Message(s):

`EX:MAB`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

113Y (MSU Y SG 0)
114Y (MSU Y SG 1)

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EX:MCTSI

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the module controller/time-slot interchange (MCTSI) unit. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MCTSI unit. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use input message STP:MCTSI. The unit will remain out of service.

2. FORMAT

```
[1]    EX:MCTSI=a-b,START[,GROW];

[2]    EX:MCTSI=a-b[,UCL][,RAW][,SYNCH=e-f-g],STEP=c[,TLP];

[3]    EX:MCTSI=a-b;

[4]    EX:MCTSI=a-b[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=d]],PH=h-i[,TLP];

[5]    EX:MCTSI=a-b,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Module control unit number.

`c` = The number of segments to be executed, beginning from the current point of suspension.

`d` = The number of times the exercise is to be repeated. Default=32,767.

`e` = The number of the phase that has statement '`g`' and segment '`f`' (SM units only).

`f` = The number of the segment that has statement '`g`' (SM units only).

`g` = The number of the statement at the beginning of which a synchronizing pulse is to be

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generated (SM units only).

`h` = The number of the phase of the segment(s) to be executed.

`i` = The number of the segment or range of segments in phase '`h`' to be executed.

`j` = The number of the phase at which suspension of diagnostic execution is desired.

`k` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:MCTSI output message.

5. REFERENCES

Input Message(s):

```
STP:MCTSI
```

Output Message(s):

```
EX:MCTSI
```

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EX:MHD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a moving head disk (MHD) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:MHD=a[:[RAW][,UCL]],PH=b[,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print all the diagnostic failures. Default is the first five failures.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing

`UCL` = Execute unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number.

`b` = Execute the specified phase.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:MHD output message.

5. REFERENCES

Input Message(s):

```
DGN:MHD
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
```

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Output Message(s):

```
ANALY:TLPFILE
DGN:MHD
EX:MHD
```

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EX:MI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the message interface (MI) be exercised in an interactive mode. This message is used primarily for manual troubleshooting. This command is not applicable in Communication Module 3 (CM3) office.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note: Use the STP:MI message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

2. FORMAT

```
[1]    EX:MI=a,START[,HELPER=b];

[2]    EX:MI=a[,UCL][,RAW],STEP=c[,TLP];

[3]    EX:MI=a[,UCL][,RAW][,RPT[=d]],PH=e-f[&&g][,TLP];

[4]    EX:MI=a;

[5]    EX:MI=a[,UCL][,RAW][,RPT[=d]][,TLP];

[6]    EX:MI=a,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list if a test fails.

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`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`a` = MI side.

`b` = Foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

`c` = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

`d` = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

`e` = The number of the phase to be executed.

`f` = The number of segment in phase '`e`' to be executed, or the lower limit in a range of segments.

`g` = Upper limit in a range of segments to be executed in phase '`e`'.

`h` = The phase number at which suspension of the diagnostic execution is desired.

`i` = The segment of phase '`h`' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the EX:MI output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:MI
DGN:MI
STP:MI
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
EX:MI
```

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Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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EX:MMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the module message processor (MMP) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note 1: Use the STP:MMP message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

Note 2: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

```
[1]    EX:MMP=a-b,START[,GROW];

[2]    EX:MMP=a-b[,UCL][,RAW],STEP=c[,TLP];

[3]    EX:MMP=a-b[,UCL][,RAW][,RPT[=d]],PH=e-f[&&g][,TLP];

[4]    EX:MMP=a-b;

[5]    EX:MMP=a-b[,UCL][,RAW][,RPT[=d]][,TLP];

[6]    EX:MMP=a-b,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

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`RAW` = Print raw test failure data.

`TLP` = Print ordered suspected pack list if a test fails.

`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`a` = Message switch side.

`b` = MMP number.

`c` = The number of segments to be executed, beginning from the current point of suspension. Ignores all specified RPT options.

`d` = Number of times the exercise is to be repeated (default is 32,767). Ignore if the STEP option is specified.

`e` = The number of the phase to be executed.

`f` = The number of the segment in phase '`e`' to be executed, or the lower limit in a range of segments.

`g` = Upper limit in a range of segments to be executed in phase '`e`'.

`h` = The phase number at which suspension of the diagnostic execution is desired.

`i` = The segment of phase '`h`' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the EX:MMP output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:MMP
DGN:MMP
STP:MMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
EX:MMP
```

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EX:MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the message switch control unit (MSCU) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note 1: Use the STP:MSCU message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

Note 2: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

```
[1]    EX:MSCU=a,START;

[2]    EX:MSCU=a[,UCL][,RAW],STEP=b[,TLP];

[3]    EX:MSCU=a[,UCL][,RAW][,RPT[=c]],PH=d-e[&&f][,TLP];

[4]    EX:MSCU=a;

[5]    EX:MSCU=a[,UCL][,RAW][,RPT[=c]][,TLP];

[6]    EX:MSCU=a,PAUSE=g-h;
```

3. EXPLANATION OF MESSAGE

`RAW` = Print the raw test failure data.

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TLP = Print an ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test.

a = MSCU side.

b = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

c = Number of times exercise is to be repeated (default is 32,767). Ignore if the STEP option is specified.

d = The number of the phase to be executed.

e = The number of segment in phase 'd' to be executed, or the lower limit in a range of segments.

f = Upper limit of range of segments to be executed in phase 'd'.

g = The phase number at which suspension of the diagnostic execution is desired.

h = The segment of phase 'g' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:MSCU output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:MSCU
DGN:MSCU
STP:MSCU
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
EX:MSCU
```

Other Manual(s):

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235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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EX:MSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the metallic service unit common (MSUCOM) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MSUCOM board. Format 2 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use input message STP:MSUCOM. The unit will remain out of service.

2. FORMAT

```
[1]    EX:MSUCOM=a-b-c,START[,GROW];

[2]    EX:MSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:MSUCOM=a-b-c;

[4]    EX:MSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];

[5]    EX:MSUCOM=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Metallic service unit number.

`c` = Service group number.

`d` = The number of segments to be executed, beginning from the current point of suspension.

`e` = The number of times the exercises is to be repeated. Default=32,767.

`f` = The number of the phase that has statement '`h`' and segment '`g`' (SM units only).

`g` = The number of the segment that has statement '`h`' (SM units only).

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`h` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`i` = The number of the phase of the segment(s) to be executed.

`j` = The number of the segment or range of segments in phase '`i`' to be executed.

`k` = The number of the phase at which suspension of diagnostic execution is desired.

`l` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:MSUCOM output message.

5. REFERENCES

Input Message(s):

```
STP:MSUCOM
```

Output Message(s):

```
EX:MSUCOM
```

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EX:MT

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a magnetic tape (MT) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:MT=a[;[RAW][,UCL]]:DATA,Ph=b[,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print all diagnostic failures. Default is the first five failures.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, because it may produce an improper TLP listing.

`UCL` Execute unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number.

`b` = Execute the specified phase.

NOTE: The phase is not executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:MT output message.

`RL` = Retry later. The system is in an overload condition.

`?I` = General syntax error, followed by the parameter position and one of the following reasons:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING KEYWORD` = A required keyword is missing from the input. Unit to diagnose must be specified.

`?D` = General syntax error in the data field, followed by the parameter position and one of the following reasons:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.

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- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING DATA` = Data required for a keyword in the stated parameter block was not found.
- `MISSING KEYWORD` = A required keyword is missing from the input. Unit to diagnose must be specified.
- `RANGE ERROR` = Input is out of the valid range.

`?E` = Input error of undetermined type.

5. REFERENCES

Input Message(s):

```
DGN:MT
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:MT
EX:MT
```

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EX:MTB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the metallic access test bus(MTB). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MTB.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:MTB. The unit will remain out of service.

2. FORMAT

```
[1]    EX:MTB=a-b-c-d-n,START[,GROW];

[2]    EX:MTB=a-b-c-d-n[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:MTB=a-b-c-d-n;

[4]    EX:MTB=a-b-c-d-n[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5]    EX:MTB=a-b-c-d-n,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Metallic service unit number.

`c` = Service group number.

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`d` = Board number.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = Number of times the exercise is to be repeated. Default=32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The number of the phase of the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = The number of the phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

`n` = MTB number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:MTB output message.

5. REFERENCES

Input Message(s):

```
STP:MTB
```

Output Message(s):

```
EX:MTB
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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EX:MTC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a magnetic tape controller (MTC) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:MTC=a[:[RAW][,UCL]],PH=b[,TLP][,MT=c];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print all the diagnostic failures. Default is to print the first five failures.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Execute unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages are input.

`b` = Number of the phase to be executed.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages are input.

`c` = Member number of the magnetic tape device that is to be used as a helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:MTC output message.

5. REFERENCES

Input Message(s):

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```
DGN:MTC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:MTC
EX:MTC
```

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EX:MTIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises the metallic test interconnect bus (MTIB) to determine if it is in satisfactory working order. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MTIB.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:MTIB input message. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:MTIB=a,START[,GROW];

[2]    EX:MTIB=a[,RAW][,UCL][,SYNCH=d-e-f],STEP=b[,TLP];

[3]    EX:MTIB=a;

[4]    EX:MTIB=a[,RAW][,UCL][,RPT[=c]][,SYNCH=d-e-f][,PH={g|(g-h)}]
       [,TLP];

[5]    EX:MTIB=a,PAUSE=i-j;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth units.

`RAW` = Print data from raw data test failure.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = MTIB number.

`b` = The number of segments to be executed, beginning from the current point of suspension.

`c` = Number of items the exercise is to be repeated. Default is 32,767.

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`d` = The number of the phase that has statement '`i`' and segment '`h`' [switching module (SM) units only].

`e` = The number of the segment that has statement '`i`' (SM units only).

`f` = The number of the statement at the beginning of which a synchronous pulse is to be generated (SM units only).

`g` = The number of the phase of the segment(s) to be executed.

`h` = The segment or range of segments in phase '`j`' to be executed.

`i` = The phase at which suspension of diagnostic execution is desired.

`j` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the EX:MTIB output message.

5. REFERENCES

Input Message(s):

```
STP:MTIB
```

Output Message(s):

```
EX:MTIB
```

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EX:MTIBAX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises the metallic test interconnect bus access (MTIBAX) to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MTIBAX.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:MTIBAX input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:MTIBAX=a-b-c-d,START[,GROW];

[2]    EX:MTIBAX=a-b-c-d[,RAW][,UCL][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:MTIBAX=a-b-c-d;

[4]    EX:MTIBAX=a-b-c-d[,RAW][,UCL][,RPT[=f]][,SYNCH=g-h-i]
       [,PH={j|(j-k)}][,TLP];

[5]    EX:MTIBAX=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Unit number.

`c` = Service group number.

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`d` = Board number.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = The number of items the exercises is to be repeated. Default is 32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronous pulse is to be generated (SM units only).

`j` = The number of the phase of the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = The number of the phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the EX:MTIBAX output message.

5. REFERENCES

Input Message(s):

```
STP:MTIBAX
```

Output Message(s):

```
EX:MTIBAX
```

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EX:MTTYC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a maintenance teletypewriter controller (MTTYC) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input message in the Input Messages manual.

2. FORMAT

```
EX:MTTYC=a[:[RAW][,UCL]],PH=b[,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print all the diagnostic failures. The default is to print the first five failures.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: The TLP and UCL parameters should not be used together, as additional test results may adversely affect the TLP listing.

`UCL` = Execute unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number.

`b` = Executes the specified phase.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:MTTYC output message.

5. REFERENCES

Input Message(s):

```
DGN:MTTYC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
```

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Output Message(s):

```
ANALY:TLPFILE
DGN:MTTYC
EX:MTTYC
```

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EX:NC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the network clock (NC) be exercised in an interactive mode. This message is used primarily for manual troubleshooting. This command is not applicable in Communication Module 3 (CM3) office.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note: Use the STP:NC message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

2. FORMAT

```
[1]    EX:NC=a,START[,HELPER=b];

[2]    EX:NC=a[,UCL][,RAW],STEP=c[,TLP];

[3]    EX:NC=a[,UCL][,RAW][,RPT[=d]],PH=e-f[&&g][,TLP];

[4]    EX:NC=a;

[5]    EX:NC=a[,UCL][,RAW][,RPT[=d]][,TLP];

[6]    EX:NC=a,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`RAW` = Print raw test failure data.

`TLP` = Print the ordered suspected pack list if a test fails.

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UCL = Print all test results unconditionally rather than just printing the first failing test.

a = NC side.

b = Foundation peripheral controller (FPC) side (0 or 1) to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

c = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

d = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

e = The number of the phase to be executed.

f = The number of segment in phase 'e' to be executed, or the lower limit in a range of segments.

g = Upper limit in a range of segments to be executed in phase 'e'.

h = The phase number at which suspension of the diagnostic execution is desired.

i = The segment of phase 'h' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:NC output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:NC
DGN:NC
STP:NC
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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EX:NLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the network link interface (NLI) be exercised in a switching module (SM) on the specified office network and timing complex (ONTC) side.

NOTE: If the unit is not out-of-service (OOS), the system first removes the unit conditionally.

Format 1 activates a diagnostic program on the NLI.

Format 2 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts (toggles) the state of a previously activated diagnostic program from "running" to "suspended" or vice versa.

Format 4 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. It then executes the specified segment or segment range according to the specified options.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:NLI input message.

2. FORMAT

```
[1]    EX:NLI=a-b-c,START[,GROW];

[2]    EX:NLI=a-b-c[,UCL][,RAW],STEP=d[,TLP][,SYNCH=e-f-g];

[3]    EX:NLI=a-b-c;

[4]    EX:NLI=a-b-c[,UCL][,RAW][,RPT[=h]],PH=i-j[&&k][,TLP];

[5]    EX:NLI=a-b-c,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Interactively diagnose an NLI in the GROW state, or in an SM in the special grow (SGRO) state. If the NLI is GROW or the SM is in the SGRO equipage state, this option must be input to perform the diagnostic.

`RAW` = Print the raw test results for each phase executed.

`RPT` = Repeat the diagnostic segment(s) '`h`' times.

`TLP` = Execute the trouble location procedure at the conclusion of the exercise. This process prints an ordered suspect pack list if a test fails.

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UCL = Unconditionally execute all required tests and print all test failures, rather than printing only the first failure and stopping.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ONTC side number.

d = Number of segments to be executed, beginning at the current point of suspension.

e = The number of the phase that has statement 'g' and segment 'f'.

f = The number of the segment that has statement 'g'.

g = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

h = Number of times the diagnostic segment(s) are to be repeated (default is 32,767).

i = Number of the phase (PH) that has the segment(s) to be executed.

j = Segment number, or the lower limit of a range of segment numbers, in phase 'i' to be executed.

k = Upper limit in a range of segment numbers in phase 'i' to be executed.

l = Number of the phase at which suspension of diagnostic execution is desired.

m = Number of the segment in phase 'l' at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the EX:NLI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:NLI
DGN:NLI
OP:DMQ-CM-SM
RMV:NLI
```

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```
RST:NLI
STP:NLI
```

Output Message(s):

```
EX:NLI
OP:DMQ-CM
OP:DMQ-SM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance Procedures*
235-105-250 *System Recovery Procedures*
235-700-300 *Peripheral Diagnostic Language Reference Manual*

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)

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EX:OTO

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the office-to-office (OTO) program on analog, integrated *SLC®*, or integrated digital carrier unit (IDCU) lines be exercised to provide pre-cutover verification of cross-connect wiring and line translations during transfer from an existing in-service office to a *5ESS®* switch office. Multiple requests can be handled simultaneously, with the limiting factor being the number of test trunks between the offices.

OTO testing should be performed during low traffic periods to minimize false shorts, busy line blocking, and the possibility of message throttling. To further reduce the possibility of loss of test results due to message throttling, it is strongly recommended that the all tests passed (ATP) option not be used. Refer also to the INH:BREVC input message. The ATP option adds 15 seconds between each line tested to prevent loss due to message throttling. If testing analog lines from a crossbar or *5ESS®* switch office, the maximum value of the outpulse timing (OT) option is recommended to allow sufficient delay for detection of traffic busy lines. Enhancements to the short test performed on analog lines provide minimal line unit hardware tests of the tip and ring crosspoints and scan detector circuitry. To avoid test path contention during OTO testing of *SLC®* or IDCU lines, there should be no loop maintenance testing in progress over the existing office *SLC®* or IDCU system. When exercising a range of directory numbers (DNs), if the first line translates to a *SLC®* or IDCU line, any analog lines in the range will be reported as UNTESTABLE. Conversely, if the first line translates to an analog line, any *SLC®* or IDCU lines in the range will be reported UNTESTABLE. Testing of lines served by IDCU is supported only for TR008 interface remote terminals (RTs). All TR303 interface RT lines encountered will be reported as UNTESTABLE. The office code (OC) option is provided to accommodate the testing of *SLC®* line equipment number (SLEN) and IDCU line equipment number (ILEN) ranges which span multiple office codes. This option must be used if the in-service switch permits access to only one office code for any given local test desk (LTD) test trunk, or if the route index of the *5ESS®* switch OTO trunk is assigned prefix digits to correctly format DNs for outpulsing to the existing office. The OC parameter may be assigned the value ALL to test multiple office codes only for those cases where the aforementioned limitations do not exist. This option is valid for SLEN and ILEN specification only. If this parameter is omitted, the OC of the first assigned line in the SLEN or ILEN range will be assumed for the entire range. Lines assigned office codes different from that assumed for the range or specified with the OC option will be reported as OC-NOT-IN-RANGE. Due to the introduction of Local Number Portability - NPA/NXX feature *5ESS®* office will support unique and non-unique office codes (NXX). Multiple NPAs can have same office codes. If the office code is non-unique, then the user has to specify 10 digit DNs including Area Code to correctly specify a DN. But if the office code is unique, then 7 digits are sufficient to correctly represent a DN.

2. FORMAT

```
EX:OTO=a-b[,NPA=a1],k[,OC={p|ALL}][,OT=q][,CT=r][,DT=s][,DEV=t][,ATP][,GLP][,PP=u
][,WC=v];
```

3. EXPLANATION OF MESSAGE

`ALL` = Exercise all office codes covered by specified route index.

`ATP` = All tests passed. Print test results for each line that tests ATP. The default will print only lines that fail. This option is not recommended because it produces a large quantity of listings and

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therefore increases the possibility that results will be lost due to message throttling. This option also adds 15 seconds between each line tested to prevent loss of output due to message throttling.

`GLP` = Compare the ground/loop start wiring of the line attending elements in the existing office to the *5ESS®* switch translations. (This option does not apply to testing of *SLC®* or IDCU lines).

`a` = Numerical code for existing office type. Valid value(s):

- `1` = Step-by-step.
- `2` = Crossbar equipped with non-no-test-trunk (members of multi-line hunt groups cannot be tested).
- `3` = *ESS™* office.
- `11` = Reverse step-by-step.
- `12` = Crossbar equipped with no-test-trunk (members of multi-line hunt groups may be tested only if the *5ESS®* switch assigns an individual DN to each member).

`b` = Route index (RTI) of the OTO trunk group. This number is found in the office record of route indexes or may be re-established by the user.

`c` = Three-digit office code.

`d` = Local digits of the first or only line in the DN range.

`e` = Local digits of the last line in the DN range.

`f` = Switching module (SM) number.

`g` = Digital carrier line unit (DCLU) number.

`h` = Remote terminal (RT) number.

`i` = RT line number of the first or only line in the SLEN range.

`j` = RT line number of the last line in the SLEN range.

`k` = Valid value(s):

`DN=c-d[&&e]`
`SLEN=f-g-h-i[&&j]`
`ILEN=f-l-m-n[&&o]`
`INEN=f-w-x-y[&&z]`

`l` = Integrated digital carrier unit (IDCU) number.

`m` = RT number.

`n` = RT line number of the first or only line in the ILEN range.

`o` = RT line number of the last line in the ILEN range.

`p` = Desired three-digit office code if the given SLEN or ILEN range spans multiple office codes and limitations discussed in the Purpose section do not exist.

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`q` = Outpulse timing. Additional delay in increments of 200 milliseconds (ms) to allow the existing office to acknowledge receipt of outpulsed digits and verify that the line is idle. OT delay = 800 + (q*200). If no value is specified, a delay of 800 ms will be used. The valid range for q is 0 (default) to 63, inclusive. When testing analog lines from a crossbar or *ESS™* office, the maximum value is recommended to allow detection of traffic busy lines.

`r` = Cut-through timing (CT). Additional delay in increments of 100 milliseconds to allow the existing office to complete its test connection following transition to low sleeve current. CT delay= 2000+ (r*100). If no value is specified, a delay of 2000 ms will be used. The valid range for r is 0 (default) to 63, inclusive.

`s` = Disconnect timing (DT). Additional guard timing delay in increments of 200 ms to allow release of trunk resources upon disconnect. DT delay= 1500+ (s*200). If no value is specified, a delay of 1500 ms will be used. The valid range for s is 0 (default) to 9, inclusive.

`t` = The device to which office to office output should be directed. If not specified, output will be directed to the input device. Output is always printed at the receive-only printer (ROP). For a complete list and explanation of valid device names, refer to the ECD/SG manual.

`u` = Apply printing priority to the corresponding output messages. A printing priority of 0 is the lowest and a printing priority of 6 is the highest. When the PP option is not used, the output priority defaults to 4 (MANUAL).

Note: Raising the priority of the output messages above 4 may impact the printing of other messages which have a lower priority. Specifying a printing priority of 3 (MINOR), 5 (MAJOR), or 6 (CRITICAL) will set the MCC status indicators and cause the alarms to ring. Using a priority below 3 may result in loss of OTO output, especially during heavy ROP traffic periods.

`v` = This is a "wild card" used for debugging and implementation of site-specific features. Contact technical support for specific values to assign. The default value is used for standard operation.

`w` = digital network unit (DNU) number.

`x` = RT number.

`y` = RT line number of the first or only line in the INEN range.

`z` = RT line number of the last line in the INEN range.

`a1` = Numbering Plan Area or Area Code of the DN.

4. SYSTEM RESPONSE

`PF` = Printout follows. Valid value(s):

- `REQxx` The message is accepted and the OTO test program is activated. The request number is automatically assigned by the OTO test program. Test results will follow in the EX:OTO output message.

`RL` = Retry later. The request was denied; the office-to-office test program is not in an executable state.

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5. REFERENCES

Input Message(s):

```
ABT:OTO
INH:BREVC
OP:LISTOTO
STP:LISTOTO
```

Output Message(s):

```
EX:OTO
```

Other Manual(s):

Where 'x' is the release specific version of the specified manual.

235-105-200 *Precutover and Cutover Procedures*
235-600-3xx *ECD/SG*

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EX:PAUSE

Software Release: 5E15 and later
Command Group: AM,CCS
Application: 5,3B
Type: Input

1. PURPOSE

To request to pause or suspend the diagnostic execution at a specified statement number within a diagnostic phase.

NOTE: To use this input message, first invoke the interactive diagnostics. For example: `EX:a[,b];ph=c;`

2. FORMAT

```
EX:PAUSE:a[,b],ST=e;
```

3. EXPLANATION OF MESSAGE

`a` = Unit type and member number of the unit on which interactive diagnostics was started. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for valid unit names and member numbers.

`b` = Unit type and member number of the subunit beneath the unit name. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for valid subunit names and member numbers.

`c` = Executes the specified phase.

`e` = Statement number that is the target of the action. This statement is not executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:PAUSE output message.

`RL` = Retry later. The system is in an overload condition.

`?I` = General syntax error followed by the parameter position and one of the following:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING KEYWORD` = A required keyword is missing from the input.

`?D` = General syntax error in the data field followed by the parameter position and one of the following reasons:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING DATA` = Data required for the statement keyword was not found on the input line.
- `MISSING KEYWORD` = A required keyword is missing from the input.
- `RANGE ERROR` = Not a valid range for the statement parameter.

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`?E` = Input error of undetermined type.

5. REFERENCES

Input Message(s):

```
EX:CU
EX:DCI
EX:DFC
EX:DUIC
EX:HSDC
EX:IOP
EX:MHD
EX:MTC
EX:MTTYC
EX:SCSDC
EX:SDLC
EX:STEP
EX:TTYC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
EX:PAUSE
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

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EX:PMU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the precision measurement unit (PMU). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the PMU.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:PMU input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:PMU=a-b-c,START[,GROW];

[2]    EX:PMU=a-b-c[,UCL][,RAW][,SYNCH=h-i-j],STEP=f[,TLP];

[3]    EX:PMU=a-b-c;

[4]    EX:PMU=a-b-c[,UCL][,RAW][,SYNCH=h-i-j][,RPT[=g]],PH=k-l[,TLP];

[5]    EX:PMU=a-b-c,PAUSE=m-n;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Directly connected test unit number in the SM.

`c` = Circuit number.

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f = The number of segments to be executed, beginning from the current point of suspension.

g = Number of times the exercise is to be repeated. Default=32,767.

h = The number of the phase that has statement 'j' and segment 'i' (SM units only).

i = The number of the segment that has statement 'j' (SM units only).

j = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

k = The number of the phase of the segment(s) to be executed.

l = The number of the segment or range of segments in phase 'k' to be executed.

m = The number of the phase at which suspension of diagnostic execution is desired.

n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:PMU output message.

5. REFERENCES

Input Message(s):

```
STP:PMU
```

Output Message(s):

```
EX:PMU
```

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EX:PPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the pump peripheral controller (PPC) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note 1: Use the STP:PPC message to terminate the exercise. Also, execute Format 1; first before attempting to use any of the other formats.

Note 2: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

```
[1]    EX:PPC=a,START;

[2]    EX:PPC=a[,UCL][,RAW],STEP=b[,TLP];

[3]    EX:PPC=a[,UCL][,RAW][,RPT[=c]],PH=d-e[&&f][,TLP];

[4]    EX:PPC=a;

[5]    EX:PPC=a[,UCL][,RAW][,RPT[=c]][,TLP];

[6]    EX:PPC=a,PAUSE=g-h;
```

3. EXPLANATION OF MESSAGE

`RAW` = Print raw test failure data.

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`TLP` = Print the ordered suspected pack list if a test fails.

`UCL` = Print all test results unconditionally rather than just printing the first failing test.

`a` = PPC side.

`b` = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

`c` = Number of times exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

`d` = The number of the phase to be executed.

`e` = The number of the segment in phase '`d`' to be executed, or the lower limit in a range of segments.

`f` = Upper limit in range of segments to be executed in phase '`d`'.

`g` = The phase number at which suspension of the diagnostic execution is desired.

`h` = The segment of phase '`g`' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by the EX:PPC output message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:PPC
DGN:PPC
STP:PPC
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
EX:PPC
```

Other Manual(s):

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235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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EX:PROTO

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises the protocol (PROTO) circuit to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the PROTO. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:PROTO input message. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:PROTO=a-b-c,START[,GROW];

[2]    EX:PROTO=a-b-c[,RAW][,UCL][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:PROTO=a-b-c;

[4]    EX:PROTO=a-b-c[,RAW][,UCL][,RPT[=e]][,SYNCH=f-g-h][,PH=i[-j][,TLP];

[5]    EX:PROTO=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Unit number.

`c` = Service group number.

`d` = The number of segments to be executed, beginning from the current point of suspension.

`e` = The number of times the exercise is to be repeated. Default is 32,767.

`f` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`g` = The number of the segment that has statement '`i`' (SM units only).

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`h` = The number of the statement at the beginning of which a synchronous pulse is to be generated (SM units only).

`i` = The number of the phase of the segment(s) to be executed.

`j` = The segment or range of segments in phase '`j`' to be executed.

`k` = The number of the phase at which suspension of diagnostic execution is desired.

`l` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the EX:PROTO output message.

5. REFERENCES

Input Message(s):

```
STP:PROTO
```

Output Message(s):

```
EX:PROTO
```

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EX:PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises (interactively diagnoses) a packet switch unit (PSU) common controller (COM).

Format 1 activates a diagnostic program on the PSU.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:PSU input message.

2. FORMAT

```
[1]    EX:PSUCOM=a-b-c[-d],START[,SUB=j][,GROW];
       ____________________________________________________________

[2]    EX:PSUCOM=a-b-c[-d],PH=e-f[,RPT[=k]][,SYNCH=l-m-n]. . .
       . . .[,RAW][,TLP][,UCL];
       ____________________________________________________________

[3]    EX:PSUCOM=a-b-c[-d],STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];
       ____________________________________________________________

[4]    EX:PSUCOM=a-b-c[-d];
       ____________________________________________________________

[5]    EX:PSUCOM=a-b-c[-d],PAUSE=h-i;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failure.

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a = Switching module (SM) number.

b = PSU number.

c = Service group number.

d = Protocol handler number.

e = The number phase (PH) that has the segments to be executed.

f = The number segment or range of segments in phase 'f' to be executed.

g = The number of segments to be executed, STEP, beginning from the current point of suspension.

h = The number phase at which suspension, PAUSE, of diagnostic execution is desired.

i = The segment number at which suspension of diagnostic execution is desired.

j = The PSUCOM shelf to be diagnosed (0-5). If SUB is not specified, diagnostics will be performed on all shelves.

k = The number of times the exercise is to be repeated. If 'k' is not specified, the test will be repeated 32,767 times.

l = The number of the phase that has statement 'n' and segment 'm'.

m = The number of the segment that has statement 'n'.

n = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the EX:PSUCOM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:PSUCOM
```

Output Message(s):

```
EX:PSUCOM
```

MCC Display Page(s):

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118x	PSU SHELF
1186	PSU NETWORK

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EX:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises (interactively diagnoses) a packet switch unit (PSU) common controller (COM).

Format 1 activates a diagnostic program on the PSU.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop any of these exercises, use the STP:PSU input message.

2. FORMAT

```
[1]    EX:PSUCOM=a-b-c[-d],START[,SUB=j][,GROW];
       ____________________________________________________________

[2]    EX:PSUCOM=a-b-c[-d],PH=e-f[,RPT[=k]][,SYNCH=l-m-n][,RAW][,TLP][,UCL];
       ____________________________________________________________

[3]    EX:PSUCOM=a-b-c[-d],STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];
       ____________________________________________________________

[4]    EX:PSUCOM=a-b-c[-d];
       ____________________________________________________________

[5]    EX:PSUCOM=a-b-c[-d],PAUSE=h-i;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

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`b` = PSU number.

`c` = Service group number.

`d` = Protocol handler number.

`e` = The number phase that has the segments to be executed.

`f` = The number segment or range of segments in phase '`f`' to be executed.

`g` = The number of segments to be executed, STEP, beginning from the current point of suspension.

`h` = The number phase at which suspension, PAUSE, of diagnostic execution is desired.

`i` = The segment number at which suspension of diagnostic execution is desired.

`j` = The PSUCOM shelf to be diagnosed (0-5). If SUB is not specified, diagnostics will be performed on all shelves.

`k` = The number of times the exercise is to be repeated. If '`k`' is not specified, the test will be repeated 32,767 times.

`l` = The number of the phase that has statement '`n`' and segment '`m`'.

`m` = The number of the segment that has statement '`n`'.

`n` = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the EX:PSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:PSUCOM
```

Output Message(s):

```
EX:PSUCOM
```

MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)

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1186,y PSU NETWORK (where y=PSU number)

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EX:PSUPH-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises (interactively diagnoses) a packet switch unit (PSU) protocol handler (PH).

Format 1 activates a diagnostic program on the PSU.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:PSU input message.

2. FORMAT

```
[1]    EX:PSUPH=a-b-c[-d],START[,SUB=k][,GROW];
       ____________________________________________________________

[2]    EX:PSUPH=a-b-c[-d],PH=e-f[,RPT[=k]][,SYNCH=l-m-n]. . .
       . . .[,RAW][,TLP][,UCL];
       ____________________________________________________________

[3]    EX:PSUPH=a-b-c[-d],STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];
       ____________________________________________________________

[4]    EX:PSUPH=a-b-c[-d];
       ____________________________________________________________

[5]    EX:PSUPH=a-b-c[-d],PAUSE=h-i;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failure.

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a = Switching module (SM) number.

b = PSU number.

c = Shelf number.

d = Protocol handler number.

e = The number phase (PH) that has the segments to be executed.

f = The number segment or range of segments in phase 'f' to be executed.

g = The number of segments to be executed, STEP, beginning from the current point of suspension.

h = The number phase at which suspension, PAUSE, of diagnostic execution is desired.

i = The segment number at which suspension of diagnostic execution is desired.

j = The PSUCOM shelf to be diagnosed (0-5). If SUB is not specified, diagnostics will be performed on all shelves.

k = The number of times the exercise is to be repeated. If 'k' is not specified, the test will be repeated 32,767 times.

l = The number of the phase that has statement 'n' and segment 'm'.

m = The number of the segment that has statement 'n'.

n = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the EX:PSUPH output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:PSUPH
```

Output Message(s):

```
EX:PSUPH
```

MCC Display Page(s):

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118x	PSU SHELF
1186	PSU NETWORK

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EX:PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises (interactively diagnoses) a packet switch unit (PSU) protocol handler (PH).

Format 1 activates a diagnostic program on the PSU.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop any of these exercises, use the STP:PSU input message.

2. FORMAT

```
[1]    EX:PSUPH=a-b-c[-d],START[,SUB=j][,GROW];
       ____________________________________________________________

[2]    EX:PSUPH=a-b-c[-d],PH=e-f[,RPT[=k]][,SYNCH=l-m-n][,RAW][,TLP][,UCL];
       ____________________________________________________________

[3]    EX:PSUPH=a-b-c[-d],STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];
       ____________________________________________________________

[4]    EX:PSUPH=a-b-c[-d];
       ____________________________________________________________

[5]    EX:PSUPH=a-b-c[-d],PAUSE=h-i;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute and print all test failures rather than stopping after the first test failure.

`a` = Switching module (SM) number.

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`b` = PSU number.

`c` = Shelf number.

`d` = Protocol handler number.

`e` = The number phase that has the segments to be executed.

`f` = The number segment or range of segments in phase '`e`' to be executed.

`g` = The number of segments to be executed, STEP, beginning from the current point of suspension.

`h` = The number phase at which suspension, PAUSE, of diagnostic execution is desired.

`i` = The segment number at which suspension of diagnostic execution is desired.

`j` = The PSUCOM shelf to be diagnosed (0-5). If SUB is not specified, diagnostics will be performed on all shelves.

`k` = The number of times the exercise is to be repeated. If '`k`' is not specified, the test will be repeated 32,767 times.

`l` = The number of the phase that has statement '`n`' and segment '`m`'.

`m` = The number of the segment that has statement '`n`'.

`n` = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the EX:PSUPH output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:PSUPH
```

Output Message(s):

```
EX:PSUPH
```

MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)

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1186,y PSU NETWORK (where y=PSU number)

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EX:QGP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnosis of a quad-link packet switch (QLPS) gateway processor (QGP). This message is used primarily for manual troubleshooting. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Format 1 activates a diagnostic program on the QGP.

Format 2 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts (toggles) the state of a previously activated diagnostic program from "running" to "suspended" or vice versa.

Format 4 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. It then executes the specified segment or segment range according to the specified options.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

Note 1: If the unit is not OOS, the system will first remove the unit conditionally.

Note 2: To stop any of these exercises, use the STP:QGP input message.

Note 3: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

```
[1]    EX:QGP=a-b,START[,GROW];

[2]    EX:QGP=a-b,STEP=c[,UCL][,RAW][,TLP];

[3]    EX:QGP=a-b;

[4]    EX:QGP=a-b,PH=d-e&&f[,UCL][,RAW][,TLP][,RPT[=g]];

[5]    EX:QGP=a-b,PAUSE=h-i;
```

3. EXPLANATION OF MESSAGE

`GROW` = Interactively diagnose a QGP in the GROW state. If the QGP is GROW, this option must be input to perform the diagnostic.

`RAW` = Print data from raw data test failure.

`TLP` = Executes the trouble location procedure at the conclusion of the diagnostic. This process

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generates a list of suspected faulty equipment.

UCL = Execute diagnostic unconditionally.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Number of segments to be executed, beginning from the current point of suspension.

d = The number of the phase (PH) that has the segment(s) to be executed.

e = Segment number, or the lower limit of a range of segment numbers in phase 'd' to be executed.

f = Upper limit of a range of segment numbers in phase 'd' to be executed.

g = Number of times the diagnostic segment(s) are to be repeated.

h = The number of the phase at which suspension of diagnostic execution is desired.

i = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the EX:QGP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:QGP
OP:DMQ-CM-SM
STP:QGP
```

Output Message(s):

```
EX:QGP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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```
APP:RANGES
```

MCC Display Page(s):

1241/1251 (MSGS COMMUNITIES 0-1, 8-9)
1380/1381 (QLPS NETWORK 0/1 STATUS)

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EX:QLPS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnosis of a quad-link packet switch (QLPS). This message is used primarily for manual troubleshooting. Completion of this input message leaves the unit in the out-of-service (OOS) state. This command is not applicable in Communication Module 3 (CM3) office.

Note: If the unit is not OOS, the system will first remove the unit conditionally.

Format 1 activates a diagnostic program on the QLPS.

Format 2 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts (toggles) the state of a previously activated diagnostic program from "running" to "suspended" or vice versa.

Format 4 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. It then executes the specified segment or segment range according to the specified options.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

Note: To stop any of these exercises, use the STP:QLPS input message.

2. FORMAT

```
[1]    EX:QLPS=a-b,START[,GROW][,HELPER=c];
       ____________________________________________________________________

[2]    EX:QLPS=a-b,STEP=d[,UCL][,RAW][,TLP];
       ____________________________________________________________________

[3]    EX:QLPS=a-b;
       ____________________________________________________________________

[4]    EX:QLPS=a-b,PH=e-f&&g[,UCL][,RAW][,TLP][,RPT[=h]];
       ____________________________________________________________________

[5]    EX:QLPS=a-b,PAUSE=i-j;
       ____________________________________________________________________
```

3. EXPLANATION OF MESSAGE

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GROW = Interactively diagnose a QLPS in the GROW state. If the QLPS is GROW, this option must be input to perform the diagnostic. Also allows access to QGPs in the GROW state that are connected to the QLPS using QGLs.

TLP = Print the ordered pack list.

RAW = Print data from raw data test failure.

UCL = Execute tests unconditionally and print test failures rather than stopping after the first test failure.

a = Office network timing and control (ONTC) side number.

b = QLPS network number.

c = Foundation peripheral controller (FPC) side number to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

d = Number of segments to be executed, beginning from the current point of suspension.

e = The number of the phase (PH) that has the segment(s) to be executed.

f = Segment number, or the lower limit of a range of segment numbers in phase 'e' to be executed.

g = Upper limit of a range of segment numbers in phase 'e' to be executed.

h = Number of times the diagnostic segment(s) are to be repeated. Maximum and default is 32767 times.

i = The number of the phase at which suspension of diagnostic execution is desired.

j = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the EX:QLPS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:QLPS
OP:DMQ-CM-SM
STP:QLPS
```

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Output Message(s):

```
EX:QLPS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

MCC Display Page(s):

1209 (ONTC 0 & 1)
1380/1381 (QLPS NETWORK 0/1 STATUS)

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EX:RAF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the recorded announcement function (RAF) unit. This message is used primarily for manual troubleshooting. Exercise is only performed once unless the RPT option is specified.

Format 1 activates a diagnostic program on the RAF unit.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:RAF input message. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:RAF=a-b,START[,GROWTH];

[2]    EX:RAF=a-b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=d]][,TLP];

[3]    EX:RAF=a-b;

[4]    EX:RAF=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];

[5]    EX:RAF=a-b,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROWTH` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print the order pack list.

`UCL` = Execute unconditionally. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number.

`b` = RAF unit number.

`c` = The number of segments to be executed, beginning from the current point of suspension.

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`d` = Number of times the exercise is to be repeated (default is 32,767).

`e` = The phase that has statement '`g`' and segment '`f`' (SM units only).

`f` = The segment that has statement '`g`' (SM units only).

`g` = The statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`h` = The phase of the segment(s) to be executed.

`i` = The segment or range of segments in phase '`h`' to be executed.

`j` = The phase at which suspension of diagnostic execution is desired.

`k` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the EX:RAF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

```
STP:RAF
```

Output Message(s):

```
EX:RAF
```

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EX:RAU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs maintenance exercises on the remote switching module (RSM) alarm (RAU) circuit. This message is used for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the RAU.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 3 inverts the state of a previously activated diagnostic from running to suspended or vice versa.

Format 4 executes a portion of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:RAU input message. The circuit will remain out of service.

2. FORMAT

```
[1]    EX:RAU=a,START[,GROW];

[2]    EX:RAU=a[,UCL][,RAW][,SYNCH=d-e-f],STEP=b[,TLP];

[3]    EX:RAU=a;

[4]    EX:RAU=a[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=c]],PH=g-h[,TLP];

[5]    EX:RAU=a,PAUSE=i-j;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered circuit pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = The number of segments to be executed, beginning from the current point of suspension.

`c` = The number of times the exercise is to be repeated. Default is 32,767.

`d` = Number of phase that has statement '`f`' and segment '`e`'.

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`e` = Segment in phase '`d`' that has statement '`f`'.

`f` = Statement in segment '`e`' of phase '`d`'; at the beginning of this statement a synchronizing pulse is to be generated.

`g` = Phase that has the segment(s) to be executed.

`h` = Number of the segment or range of segments in phase '`g`' to be executed.

`i` = Number of the phase in which suspension of diagnostic execution is desired.

`j` = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the EX:RAU output message.

5. REFERENCES

Input Message(s):

```
STP:RAU
```

Output Message(s):

```
EX:RAU
```

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EX:RCDDP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an operation be performed or a status read on a remote common data and control (COMDAC) distribute point. This input message is used for manual trouble-shooting.

2. FORMAT

```
EX:RCCDP=a-b-c,d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Remote access interface unit (RAIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Distribute point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The operation to be performed. Valid value(s):
`CLOSE`
`OPEN`
`STATUS`

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been completed. Followed by the EX:RCDDP output message.

5. REFERENCES

Output Message(s):

`EX:RCDDP`

Input Appendix(es):

`APP:RANGES`

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EX:RCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance exercises be performed on the remote clock (RCLK). This message will exercise the following circuits:

- Remote clock (RCLK)
- Remote clock cross couple (RCXC)
- Remote clock oscillator (RCOSC)
- Remote clock oscillator cross couple (RCOXC)
- All the equipped remote clock references (RCREFs)

Format 1 activates a diagnostic on the RCLK.

Format 2 executes a portion of a previously activated diagnostic.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 4 inverts the state, from running to suspended or vice versa, of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

NOTE: To stop this exercise, use the STP:RCLK input message. The STP:RCLK message will always leave the circuit out-of-service.

2. FORMAT

```
[1]    EX:RCLK=a-b,START[,GROW];

[2]    EX:RCLK=a-b[,UCL][,RAW][,SYNCH=c-d-e][,RPT[=f]],PH=g-h[,TLP];

[3]    EX:RCLK=a-b[,UCL][,RAW][,SYNCH=c-d-e],STEP=i[,TLP];

[4]    EX:RCLK=a-b;

[5]    EX:RCLK=a-b,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered circuit pack list.

`UCL` = Unconditionally execute and print all test failures. Diagnostic will continue past all non-fatal errors.

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`a` = Switching module (SM) number.

`b` = RCLK side.

`cde` = Generate a synchronizing pulse at the beginning of statement '`c`' in segment '`d`' of phase '`e`'.

`f` = Number of times the exercises to be repeated. Default is 32767.

`gh` = Execute the specified segments of the phase, where:
- `g` = The number of the phase.
- `h` = Segment or range of segments in phase '`g`' to be executed.

`i` = Number of segments to execute, beginning from the current point of suspension.

`jk` = Phase and segment number at which to suspend the diagnostic.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST` = The SM specified does not exist in the system.
- `SM UNEQUIPPED` = The SM specified is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. Followed by the EX:RCLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`STP:RCLK`

Output Message(s):

`EX:RCLK`

MCC Display Page(s):

RSM RCU

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EX:RDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs maintenance exercises on the remote switching module (RSM) digital facilities interface (RDFI) circuit. This message is used for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the RDFI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 3 inverts the state of a previously activated diagnostic from running to suspended or vice versa.

Format 4 executes a portion of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:RDFI input message. The circuit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:RDFI=a-b-c,START[,GROW];

[2]    EX:RDFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:RDFI=a-b-c;

[4]    EX:RDFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];

[5]    EX:RDFI=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered circuit pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit number.

`c` = RDFI number.

`d` = The number of segments to be executed, beginning from the current point of suspension.

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`e` = Number of times the exercise is to be repeated. Default is 32,767.

`f` = Number of the phase that has statement '`h`' and segment '`g`'.

`g` = Number of the segment in phase '`f`' that has statement '`h`'.

`h` = Number of the statement in segment '`g`' of phase '`f`'; at the beginning of this statement a synchronizing pulse is to be generated.

`i` = Number of the phase that has the segment(s) to be executed.

`j` = Number of the segment or range of segments in phase '`i`' to be executed.

`k` = Number of the phase in which suspension of diagnostic execution is desired.

`l` = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the EX:RDFI output message.

5. REFERENCES

Input Message(s):

```
STP:RDFI
```

Output Message(s):

```
EX:RDFI
```

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EX:RLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs maintenance exercises on the remote switching module (RSM) remote link interface (RLI) circuit. This message is used for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the RLI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified NUMBER of segments has been run.

Format 3 inverts the state of a previously activated diagnostic from running to suspended or vice versa.

Format 4 executes a portion of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:RLI input message. The circuit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:RLI=a-b,START[,GROW];

[2]    EX:RLI=a-b[,UCL][,RAW][,SYNCH=e-f-g],STEP=c[,TLP];

[3]    EX:RLI=a-b;

[4]    EX:RLI=a-b[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=d]],PH=h-i[,TLP];

[5]    EX:RLI=a-b,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally.

`RAW` = Print raw test failure data.

`GROW` = Allow access to growth equipment.

`TLP` = Print ordered circuit pack list.

`a` = Switching module (SM) number.

`b` = RLI number.

`c` = The number of segments to be executed, beginning from the current point of suspension.

`d` = Number of times the operation is to be repeated. Default is 32,767.

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e = Number of the Phase that has statement 'g' and segment 'f'.

f = Number of the segment in phase 'e' that has statement 'g'.

g = Number of the statement in segment 'f' of phase 'e'; at the beginning of this statement a synchronizing pulse is to be generated.

h = Number of the phase that has the segment(s) to be executed.

i = Number of the Segment or range of segments in phase 'j' to be executed.

j = Number of the phase in which suspension of diagnostic execution is desired.

k = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the EX:RLI output message.

5. REFERENCES

Input Message(s):

```
STP:RLI
```

Output Message(s):

```
EX:RLI
```

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EX:RPCN

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Exercises a ring peripheral controller node (RPCN) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

Four sequential system actions are performed in response to this input message.

A The RPCN is removed from service following the rules for the RMV:RPCN input message.

B If the resultant RPCN major state is out-of-service (OOS), growth (GROW), offline (OFL), or unavailable (UNAV), an attempt is made to isolate the RPCN. For other major states the diagnostic is aborted by the diagnostic monitor (DIAMON).

C The specified diagnostic phases are run.

D If the RPCN was in the active ring before the start of the diagnostics and was successfully isolated (in 2 above), then at the conclusion of the diagnostic execution an attempt is made to include the RPCN back into the active ring. Otherwise the node is left in its original ring configuration state. The RPCN remains in the OOS, GROW, OFL, or UNAV state.

2. FORMAT

```
EX:RPCNa=0:PH={b|b-c}[,d];
```

3. EXPLANATION OF MESSAGE

`a` = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Single phase to be run or first phase of the range of phases to be run.

`c` = Last phase of the range of phases to be run.

NOTE: The phase or phases will not be executed until subsequent input messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

`d` = Helper unit to be used with this diagnostic request.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

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Input Message(s):

```
DGN:RPCN
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
RMV:RPCN
```

Output Message(s):

```
ANALY:TLPFILE
DGN:RPCN
EX:RPCN
```

Input Appendix(es):

```
APP:RANGES
```

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EX:RRCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK). This message is used primarily for manual troubleshooting.

Format 1; activates the interactive diagnostic on the RRCLK.

Format 2; executes a portion of a previously activated diagnostic.

Format 3; resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments (STEP parameter) has been performed.

Format 4; inverts the state of a previously activated diagnostic from running to suspended or vice versa. This message removes all previous options set.

Format 5; transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

NOTE: To stop any of these exercises, use the STP:RRCLK input message. The unit will remain out of service (OOS).

2. FORMAT

```
[1]    EX:RRCLK=a-b-c,START[,GROW];

[2]    EX:RRCLK=a-b-c,PH=i[-j&&k][,UCL][,RAW][,RPT [e]][,TLP];

[3]    EX:RRCLK=a-b-c,STEP=d[,UCL][,RAW][,TLP];

[4]    EX:RRCLK=a-b-c;

[5]    EX:RRCLK=a-b-c,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered circuit pack list.

`UCL` = Execute unconditionally. Diagnostic will continue past all nonfatal errors.

`a` = Switching module (SM) number.

`b` = RISLU number (0-7).

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c = RRCLK side (0 or 1).

d = The number of segments (STEP) to be executed, beginning from the current point of suspension.

e = Number of times the test is to be repeated. If 'e' is not specified then the test repeats 32,767 times.

i = The number of the phase (PH) to be executed.

j = The first segment in phase 'i' to be executed.

k = Upper limit of a range of segments in phase 'i' to be executed.

l = The phase at which to suspend (PAUSE) the diagnostic.

m = The segment at which to suspend the diagnostic.

4. SYSTEM RESPONSE

NG = No good.
- NG-CONFLICT WITH UNIT STATE
- NG-SM DOES NOT EXIST
- NG-SM UNEQUIPPED
- NG-UNIT DOES NOT EXIST

PF = Printout follows. Followed by the EX:RRCLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:RRCLK
```

Output Message(s):

```
EX:RRCLK
```

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EX:RVPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the revertive pulsing transceiver (RVPT) to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting. The circuit is left out of service when the testing is completed.

Format 1 activates a diagnostic program on the RVPT.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

Format 4 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

To stop this exercise, use input message STP:RVPT. The unit will remain out of service.

2. FORMAT

```
[1]    EX:RVPT=a-b-c-d,START[,GROW];

[2]    EX:RVPT=a-b-c-d[,RAW][,UCL][,RPT[=f]][,SYNCH=g-h-i]PH={j-k|j-k&&l}
       [,TLP];

[3]    EX:RVPT=a-b-c-d,PAUSE=m-n;

[4]    EX:RVPT=a-b-c-d,STEP=e[,RAW][,UCL][,SYNCH=g-h-i][,TLP];

[5]    EX:RVPT=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw data from test failure.

`TLP` = Print trouble locating procedure ordered pack list.

`UCL` = Print all test failures in the specified segment range.

`a` = Switching module (SM) number.

`b` = Unit number.

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`c` = Service group number.

`d` = Board number.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = The number of times the exercises is to be repeated (default is 32,767).

`g` = The number of the phase in which to generate a synch pulse.

`h` = The number of the segment in which to generate a synch pulse.

`i` = The number of the statement at the beginning of which a synchronous pulse is to be generated.

`j` = The number of the phase of the segment(s) to be executed.

`k` = The number of the segment or first segment of a range in phase 'j' to be executed.

`l` = The last segment of a range in phase 'j' to be executed.

`m` = The phase at which suspension of diagnostic execution is desired.

`n` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. Invalid SM number, metallic service unit (MSU) number, or service group number.

`PF` = Printout follows. The request was accepted. Followed by the EX:RVPT output message.

5. REFERENCES

Input Message(s):

```
STP:RVPT
```

Output Message(s):

```
EX:RVPT
```

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EX:SAS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the service announcement system (SAS) unit. This message is used primarily for manual troubleshooting. Exercise is only performed once unless the RPT option is specified.

Format 1 activates a diagnostic program on the SAS unit.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:SAS input message. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:SAS=a-b,START[,GROW];

[2]    EX:SAS=a-b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=d]]
       [,TLP];

[3]    EX:SAS=a-b;

[4]    EX:SAS=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];

[5]    EX:SAS=a-b,PAUSE=j-k;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`UCL` = Execute unconditionally. DGN will continue past all non-fatal failures.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The number of segments to be executed, beginning from the current point of suspension.

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d = Number of times the test is to be repeated. (default is 32,767).

e = The number of the phase that has statement 'g' and segment 'f' (SM units only).

f = The number of the segment that has statement 'g' (SM units only).

g = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

h = The phase of the segment(s) to be executed.

i = The segment or range of segments in phase 'h' to be executed.

j = The number of the phase at which suspension of diagnostic execution is desired.

k = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the EX:SAS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

STP:SAS

Output Message(s):

EX:SAS

Input Appendix(es):

APP:RANGES

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EX:SCAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the scan point board (SCAN). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the scan point board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:SCAN input message. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:SCAN=a-b-c-d,START[,GROW];

[2]    EX:SCAN=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:SCAN=a-b-c-d;

[4]    EX:SCAN=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5]    EX:SCAN=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Metallic service unit number (0 or 1).

`c` = Service group number (0 or 1).

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`d` = Scan point board number (0-31).

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = Number of times the exercise is to be repeated. Default=32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The number of the phase of the segment(s) to be executed.

`k` = The segment or range of segments in phase '`j`' to be executed.

`l` = The phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:SCAN output message.

5. REFERENCES

Input Message(s):

```
STP:SCAN
```

Output Message(s):

```
EX:SCAN
```

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EX:SCSDC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a scanner and signal distributor controller (SCSDC) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:SCSDC=a[:[RAW][,UCL]],PH=b[,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print all the diagnostic failures. Default is the first five failures.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Execute unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Execute the specified phase.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by EX:SCSDC output message.

5. REFERENCES

Input Message(s):

```
DGN:SCSDC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
```

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```
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:SCSDC
EX:SCSDC
```

Input Appendix(es):

```
APP:RANGES
```

EX:SDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) a *SLC*®96 digital facility interface (SDFI). This message is used primarily for manual troubleshooting.

Format 1; starts a diagnostic exercise program on the SDFI.

Format 2; executes a portion of a previously activated diagnostic program.

Format 3; inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4; resets the diagnostic's options and executes the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5; transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:SDFI. The unit will remain out of service.

2. FORMAT

```
[1]    EX:SDFI=a-b-c,START[,GROW];

[2]    EX:SDFI=a-b-c,PH=d[-e[&&f]][,UCL][,RAW][,SYNCH=g-h-i]
       [,RPT[=j]][,TLP];

[3]    EX:SDFI=a-b-c;

[4]    EX:SDFI=a-b-c,STEP=k[,UCL][,RAW][,SYNCH=g-h-i][,TLP];

[5]    EX:SDFI=a-b-c,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print data from raw data test failure.

`TLP` = Print the ordered pack list.

`UCL` = Unconditionally execute.

`a` = Switching module (SM) number.

`b` = DCLU number (0-7).

`c` = SDFI number (0-29).

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d = The number of the phase that has the segment(s) to be executed.

e = The segment number or upper limit of a range of segment numbers in phase 'd' to be executed.

f = Lower limit of a range of segment numbers in phase 'd' to be executed.

g = The phase that has statement 'i' and segment 'h' (SM units only).

h = The segment that has statement 'h' (SM units only).

i = The statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

j = Number of times the exercise is to be repeated. Default is 32,767.

k = The number of segments to be executed, beginning from the current point of suspension.

l = The number of the phase at which suspension of diagnostic execution is desired.

m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the EX:SDFI output message.

5. REFERENCES

Input Message(s):

```
STP:SDFI
```

Output Message(s):

```
EX:SDFI
```

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EX:SDLC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a synchronous data link controller (SDLC) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:SDLC=a[:[RAW][,UCL]],PH=b[,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print all the diagnostic failures. Default is to print the first five failures.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Execute unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Execute the specified phase.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:SDLC output message.

5. REFERENCES

Input Message(s):

```
DGN:SDLC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
```

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```
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:SDLC
EX:SDLC
```

Input Appendix(es):

```
APP:RANGES
```

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EX:SLIM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the subscriber line instrument measurement (SLIM) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the SLIM board. This input message must be run before any of the other EX input message formats can be executed.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:SLIM input message. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:SLIM=a-b-c-d,START[,GROW];

[2]    EX:SLIM=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:SLIM=a-b-c-d;

[4]    EX:SLIM=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5]    EX:SLIM=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section

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of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SLIM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = Number of times the exercise is to be repeated. The default is 32,767.

`g` = The number of the phase that has statement from variable '`i`' and segment from variable '`h`' (SM units only).

`h` = The number of the segment that has statement from variable '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The number of the phase of the segment(s) to be executed.

`k` = The segment or range of segments in phase from variable '`j`' to be executed.

`l` = The phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. An EX:SLIM output message will follow.

5. REFERENCES

Input Message(s):

`STP:SLIM`

Output Message(s):

`EX:SLIM`

Input Appendix(es):

`APP:RANGES`

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EX:STEP

Software Release: 5E15 and later
Command Group: AM,CCS
Application: 5,3B
Type: Input

1. PURPOSE

Requests to step through the diagnostic input messages and suspend at the specified statement number. It is similar to the EX:PAUSE input message, but in the case of a CU diagnostic, it will also print the input message buffer contents being passed to the diagnostic driver.

NOTE: To use this input message, first invoke the interactive diagnostics. For example: `EX:a[,b];ph=c;`

2. FORMAT

```
EX:STEP:a[,b],ST=e;
```

3. EXPLANATION OF MESSAGE

`a` = Unit type and member number on which interactive diagnostics was started. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for valid unit names and member numbers.

`b` = Unit type and member number of the subunit, if any. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for valid subunit names and member numbers.

`c` = Executes the specified phase.

`e` = Statement number that is the target of the action. This statement is not executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:STEP output message.

`RL` = Retry later. The system is in an overload condition.

`?I` = General syntax error followed by the parameter position and one of the following reasons:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING KEYWORD` = A required keyword is missing from the input.

`?D` = General syntax error in the data field followed by the parameter and one of the following reasons.
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING DATA` = Data required for the statement keyword was not found on the input line.
- `RANGE ERROR` = Not a valid range for the statement parameter.

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?E = Input error of undetermined type.

5. REFERENCES

Input Message(s):

```
EX:CU
EX:DCI
EX:DFC
EX:DUIC
EX:HSDC
EX:IOP
EX:MHD
EX:MTC
EX:MTTYC
EX:PAUSE
EX:SCSDC
EX:SDLC
EX:TTYC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
EX:STEP
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

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EX:STOP

Software Release: 5E15 and later
Command Group: AM,CCS
Application: 5,3B
Type: Input

1. PURPOSE

Requests to exit from the interactive diagnostic mode. This only stops the EX:LOOP input message.

NOTE: To use this input message, first invoke the interactive diagnostics and the EX:LOOP input message. For example: `EX:a[,b];ph=c; EX:LOOP;a[,b]:st=f-g;`

2. FORMAT

```
EX:STOP:a[,b];
```

3. EXPLANATION OF MESSAGE

`a` = Unit type and member number of the unit on which interactive diagnostics was started. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for valid unit names and member numbers.

`b` = Unit type and member number of the subunit beneath the unit name. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for valid subunit names and member numbers.

`c` = Executes the specified phase.

`f` = Statement lower boundary of an exercise loop.

`g` = Statement upper boundary of an exercise loop.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:STEP output message.

`RL` = Retry later. The system is in an overload condition.

`?I` = General syntax error, followed by the parameter position and one of the following reasons:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING KEYWORD` = A required keyword is missing from the input.

`?D` = General syntax error in the data field, followed by the parameter position and one of the following reasons:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING DATA` = Data required for the statement keyword was not found on the input line.
- `MISSING KEYWORD` = A required keyword is missing from the input.

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– `RANGE ERROR` = Not a valid value for the statement parameter.

`?E` = Input error of undetermined type.

5. REFERENCES

Input Message(s):

```
EX:CU
EX:DCI
EX:DFC
EX:DUIC
EX:HSDC
EX:IOP
EX:LOOP
EX:MHD
EX:MTC
EX:MTTYC
EX:SCSDC
EX:SDLC
EX:TTYC
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
EX:STEP
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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EX:TAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the test and access circuit (TAC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the TAC. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use input message STP:TAC. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:TAC=a-b-c,START[,GROW];

[2]    EX:TAC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3]    EX:TAC=a-b-c;

[4]    EX:TAC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]]
       ,PH=i-j[,TLP];

[5]    EX:TAC=a-b-c,PAUSE=k-l;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The number of segments to be executed, beginning from the current point of suspension.

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e = Number of times the exercise is to be repeated. Default=32,767.

f = The number of the phase that has statement 'h' and segment 'g' (SM units only).

g = The number of the segment that has statement 'h' (SM units only).

h = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

i = The number of the phase of the segment(s) to be executed.

j = The segment number or range of segment numbers in phase 'i' to be executed.

k = The number of the phase at which suspension of diagnostic execution is desired.

l = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:TAC output message.

5. REFERENCES

Input Message(s):

STP:TAC

Output Message(s):

EX:TAC

Input Appendix(es):

APP:RANGES

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EX:TEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the trunk equipment number (TEN). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the TEN.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:TEN. The unit will remain out of service.

2. FORMAT

```
[1]    EX:TEN=a-b-c-d-e,START[,GROW];

[2]    EX:TEN=a-b-c-d-e[,UCL][,RAW][,SYNCH=h-i-j],STEP=f[,TLP];

[3]    EX:TEN=a-b-c-d-e;

[4]    EX:TEN=a-b-c-d-e[,UCL][,RAW][,SYNCH=h-i-j][,RPT[=g]]
       ,PH=k-l[,TLP];

[5]    EX:TEN=a-b-c-d-e,PAUSE=m-n;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = TEN unit number in the SM. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TEN circuit number.

`f` = The number of segments to execute, beginning from the current point of suspension.

`g` = Number of times the exercise is to be repeated. Default=32,767.

`h` = The number of the phase that has statement '`j`' and segment '`i`' (SM units only).

`i` = The number of the segment that has statement '`j`' (SM units only).

`j` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`k` = The number of the phase to be executed. If no segments (variable '`l`') are specified, execute the entire phase.

`l` = The segment number or range of segment numbers in phase '`k`' to be executed.

`m` = The number of the phase at which suspension of diagnostic execution is desired.

`n` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:TEN output message.

5. REFERENCES

Input Message(s):

`STP:TEN`

Output Message(s):

`EX:TEN`

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EX:TMS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the time multiplexed switch (TMS) be exercised in an interactive mode. This message is used primarily for manual troubleshooting. This command is not applicable in Communication Module 3 (CM3) office.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note: Use the STP:TMS input message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

2. FORMAT

```
[1]    EX:TMS=a,START[,HELPER=b][,GROW];
       ____________________________________________________________________

[2]    EX:TMS=a[,UCL][,RAW],STEP=c[,TLP];
       ____________________________________________________________________

[3]    EX:TMS=a[,UCL][,RAW][,RPT[=d]],PH=e-f[&&g][,TLP];
       ____________________________________________________________________

[4]    EX:TMS=a;
       ____________________________________________________________________

[5]    EX:TMS=a[,UCL][,RAW][,RPT[=d]][,TLP];
       ____________________________________________________________________

[6]    EX:TMS=a,PAUSE=h-i;
```

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3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print the ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test.

a = TMS side (0 or 1).

b = Foundation peripheral controller (FPC) side (0 or 1) to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

c = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

d = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

e = The number of the phase to be executed.

f = The number of segment in phase 'e' to be executed, or the lower limit in a range of segments.

g = Upper limit in a range of segments to be executed in phase 'e'.

h = The phase number at which suspension of the diagnostic execution is desired.

i = The segment of phase 'h' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:TMS output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ABT:TMS
DGN:TMS
STP:TMS
```

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Output Message(s):

```
EX:TMS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

EX:TTFCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the transmission test facility common (TTFCOM) circuit. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the TTFCOM circuit. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:TTFCOM input message. The unit will remain out of service.

2. FORMAT

```
[1]    EX:TTFCOM=a-b-c-d,START[,GROW];

[2]    EX:TTFCOM=a-b-c-d[,UCL][,RAW][,SYNCH=f-g-h],STEP=e[,TLP];

[3]    EX:TTFCOM=a-b-c-d;

[4]    EX:TTFCOM=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i]
       [,RPT[=f]],PH=j-k[,TLP];

[5]    EX:TTFCOM=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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e = The number of segments to be executed, beginning from the current point of suspension.

f = Number of times the exercise is to be repeated. Default=32,767.

g = The number of the phase that has statement 'i' and segment 'h'.

h = The number of the segment that has statement 'i'.

i = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

j = The number of the phase of the segment(s) to be executed.

k = The segment or range of segments in phase 'j' to be executed.

l = The phase at which suspension of diagnostic execution is desired.

m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:TTFCOM output message.

5. REFERENCES

Input Message(s):

```
STP:TTFCOM
```

Output Message(s):

```
EX:TTFCOM
```

Input Appendix(es):

```
APP:RANGES
```

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EX:TTYC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Exercises a teletypewriter controller (TTYC). Refer to the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

```
EX:TTYC=a[:[RAW][,UCL]],PH=b[,TLP][,CONT];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print all the diagnostic failures. Default is to print the first five failures.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

`UCL` = Execute unconditionally.

NOTE: This option does not override forced early terminations.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Execute the specified phase.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EX:TTYC output message.

5. REFERENCES

Input Message(s):

```
DGN:TTYC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
```

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```
STP:DMQ
```

Output Message(s):

```
ANALY:TLPFILE
DGN:TTYC
EX:TTYC
```

Input Appendix(es):

```
APP:RANGES
```

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EX:UCONF

Software Release: 5E15 and later
Command Group: SMA
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the universal conference circuit (UCONF) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the universal conference circuit board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:UCONF. The unit will remain out-of-service (OOS).

2. FORMAT

```
[1]    EX:UCONF=a-b-c-d,START[,GROW];

[2]    EX:UCONF=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:UCONF=a-b-c-d;

[4]    EX:UCONF=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]]
       ,PH=j-k[,TLP];

[5]    EX:UCONF=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital service circuit unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of segments to be executed, beginning from the current point of suspension.

`f` = Number of times the exercise is to be repeated. Default=32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The phase of the segment(s) to be executed.

`k` = The segment or range of segments in phase '`j`' to be executed.

`l` = The phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:UCONF output message.

5. REFERENCES

Input Message(s):

`STP:UCONF`

Output Message(s):

`EX:UCONF`

Input Appendix(es):

`APP:RANGES`

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EX:UTD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the universal tone detector (UTD). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the UTD.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:UTD. The unit will remain out of service.

2. FORMAT

```
[1]    EX:UTD=a-b-c-d,START[,GROW];

[2]    EX:UTD=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:UTD=a-b-c-d;

[4]    EX:UTD=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]]
       ,PH=j-k[,TLP];

[5]    EX:UTD=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of segments to execute, beginning from the current point of suspension.

`f` = Number of the exercise is to be repeated. Default=32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

`j` = The number of the phase of the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = The number of the phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:UTD output message.

5. REFERENCES

Input Message(s):

`STP:UTD`

Output Message(s):

`EX:UTD`

Input Appendix(es):

`APP:RANGES`

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EX:UTG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the universal tone generator (UTG). This message is used primarily for manual troubleshooting.

Format 1; starts a diagnostic exercise program on the UTG.

Format 2; resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3; inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4; executes a portion of a previously activated diagnostic program.

Format 5; transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:UTG. The unit will remain out of service.

2. FORMAT

```
[1]    EX:UTG=a-b-c-d,START[,GROW];

[2]    EX:UTG=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];

[3]    EX:UTG=a-b-c-d;

[4]    EX:UTG=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]]
       ,PH=j-k[,TLP];

[5]    EX:UTG=a-b-c-d,PAUSE=l-m;
```

3. EXPLANATION OF MESSAGE

`GROW` = Allow access to growth equipment.

`RAW` = Print raw test failure data.

`TLP` = Print ordered pack list.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Local digital service unit (DSU) number (0).

`c` = Service group number (0 or 1).

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`d` = DSU board position number (0-7).

`e` = The number of segments to execute, beginning from the current point of suspension.

`f` = Number of times the exercise is to be repeated. Default=32,767.

`g` = The number of the phase that has statement '`i`' and segment '`h`' (SM units only).

`h` = The number of the segment that has statement '`i`' (SM units only).

`i` = The number of the statement at the beginning of which a synchronous pulse is to be generated (SM units only).

`j` = The number of the phase of the segment(s) to be executed.

`k` = The number of the segment or range of segments in phase '`j`' to be executed.

`l` = The number of the phase at which suspension of diagnostic execution is desired.

`m` = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request has been accepted. Followed by the EX:UTG output message.

5. REFERENCES

Input Message(s):

```
STP:UTG
```

Output Message(s):

```
EX:UTG
```

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29. EXC

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EXC:ALE-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels. ALE can be requested for an individual ISDN protocol channel [such as, digital subscriber line (DSL)], a DSL group, or an entire switching module (SM). However, only one user-requested ALE can be in progress at a time. Line evaluation may be specified to include level 1 and level 2 error counts and protocol error records (PERs). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

Level 1 applies to U-interface digital subscriber lines (U-DSLs) and retrieves physical layer error counts stored in the integrated services line unit (ISLU or ISLU2) U-card termination or the integrated digital carrier unit (IDCU) TR303 U-card terminations. Some additional error counts are available for *ANSI*® U-cards; current (CURR) hour, previous (PREV) hour, hour (HOUR), interval (INT), and day (DAY) counts, as well as the history (HIST) for the last eight intervals. U-DSLs equipped with channel units (CUs) make available the current and previous interval counts using the CU option.

Level 1 also applies to basic rate interface transmission extension (BRITE) channel units for interfaces supported by *ANSI*® U-cards. The CU option must be specified in the input message in order to retrieve or reset the error counts on these channel units. For interfaces that do not support or have no equipped channel units, the CU option will have no effect on the retrieval of data.

INT and DAY counts are accumulations of CURR counts, and are updated hourly. If either the INT or the DAY counters are reset, they will be updated with the contents of the CURR counter at the next hourly interval. Therefore, if a true zero starting point is needed, it is necessary to reset the CURR counter at the same time the INT and/or DAY counters are reset.

Level 1 requests that immediately following the inhibiting (INH:ALE) of ISDN, protocol channels may give an erroneous indication that the level 1 error counts are increasing. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes. Level 1 requests that immediately following the allowing (ALW:ALE) of ISDN, protocol channels may give an erroneous indication that the level 1 error counts are not incrementing. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes.

Level 1 requests on embedded operation channels (EOC) or timeslot management channels (TMC) are not supported.

Level 2 applies to all ISDN protocol channels and retrieves frame error information stored in the protocol handler (PH). Any of the level 1 or level 2 counts may be reset to zero by using the RESET or SRESET option. Normally only DSLs with either off-normal level 2 counts, or level 1 counts that have exceeded thresholds, are reported. A full report of all DSLs is available by specifying FULL. The FULL option is always implied for level 1 on IDCU terminations.

PER reporting retrieves the protocol error history for an ISDN protocol channel stored in the SMs. The protocol error histories can also be reset using one of the RESET options. In addition, the FROM, TO, and LAST options can be used to retrieve PER histories for specified time periods and for specified counts. The default

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request is execution of level 2 and PER reporting.

2. FORMAT

```
EXC:ALE,a[,CH=y][,z][,LAST=a1][,FROM=b1b1-b1b1-b1b1][,TO=e1e1-e1
e1-e1e1]
[,LEVEL1[=f1][,CU[=g1]]][,LEVEL2][,FULL][,PER][,PRINT];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`FULL` = For level 1 requests, report counts for all specified line terminations, not just the ones that exceeded a threshold. All IDCU terminations have an implied FULL option for level 1 requests. For level 2 requests, lines with insufficient level 2 error information will also be reported.

`LEVEL1` = Evaluate level 1 errors in the ISLU and/or IDCU U-DSL physical layer counters.

`LEVEL2` = Evaluate level 2 errors in packet handler counters (default).

`PRINT` = Send the output to the ROP and switching control center (SCC) as well as to the requesting terminal. The default is to send the output only to the requesting terminal.

`a` = Line identification. Valid value(s):

`AIUEN=d-u1-v1-w1`
`BST=b-c`
`DEN=d-e-f-g`
`DN=h`
`DNUSEOC=d-l1-v-x`
`DNUSTMC=d-l1-v-x`
`DSLGM=d-q1-i-j` = The parameters for DSLGM have more latitude than other identifiers. The 4 legal forms in increasing scope are:
DSLGM=sm-psunum-group-member = An individual DSLGM.
DSLGM=sm-psunum-group-ALL = All members of a DSLGM group.
DSLGM=sm-psunum-ALL-ALL = All members of a PSU
DSLGM=sm-ALL-ALL-ALL = All DSLGM on an SM (same as sm= option).
DSLGM=ALL-ALL-ALL-ALL = Entire office.

Any attempt to mix and match the ALL option with the other parameters will result in propagation of the ALL option to the lower order fields. For example: DSLGM=8-ALL-ALL-7 is transformed to DSLGM=8-ALL-ALL-ALL before it is acted upon.

`ATMPP=d-q1-g2-h2`
`IDCUEOC=d-u-v-x`
`IDCUTMC=d-u-v-x`
`ILEN=d-u-v-w`
`INEN=d-l1-v-w`
`LCEN=d-k-l-m`
`LCKEN=d-i1-t1-j1-k1`
`MLHG=n-o`

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```
NEN=d-l[1]-m[1]-x[1]-n[1]-o[1]-y[1]-p[1]
OAPO=b
OPT=b-c
PKTDN=h[1]
PLTEN=d-z[1]-a[2]-b[2]-c[2]
PORT=d-p
PSUEN=d-q[1]-r[1]-s[1]-j
RTRS=q-r
SM=c[1][&&d[1]]
TKGMN=s-t
VBRI=d-d[2]
VTRK=d-e[2]-f[2]
```

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = The DN associated with the port. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.

i = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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o = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Channel type (valid for LEVEL2 and PER requests when using LCEN line identification and for DN/MLHG line identification when the line supports packet switching common DN). Valid value(s):

B1	= Channel B1.
B2	= Channel B2.
D	= D-channel.
Note:	The request will be rejected when the channel type is specified, the line is provisioned for on-demand packet service, and both B-channels are available to be used by the on-demand packet service. In this case, there is no direct relationship between the on-demand packet service and a B-channel. Using channel type for LEVEL1 requests is invalid.

z = Reset option. PER's are reset without regard to time ranges specified on the input request line. The counters are not cleared unless the reset or silent reset option is included in the input request. Valid value(s):

RESET	= Reset error counts and clear PER tables. Before the reset, requested data will be sent to the receive-only printer (ROP).
SRESET	= Silently reset error counts. Reset error counts and clear PER tables, but do not report present values.

a^1 = The maximum number of PERs, per DSLGM, to be included in the report. The PERs

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retrieved are the last PERS within the specified time period.

b[1] = Start of time period, in the form hours-minutes-seconds.

c[1] = SM number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = End of time period, in the form hours-minutes-seconds.

f[1] = Count specifier. Valid value(s):

- ALL = All of the above counts.
- CURR = Current hour, interval, and day counts (default).
- DAY = Current and previous day counts.
- DISK = Report data stored in disk file. This command accepts two line identifications:
  - 1 = SM line identification.
  - 2 = Single line identification.
- HIST = Recent interval history.
- HOUR = Current and previous hourly line card counts.
- INT = Current and previous interval counts.
- PREV = Previous hour, interval, and day counts.

g[1] = Channel unit(s) for which current and interval counts are sought. If the CU option is not followed by a specific channel unit number (that is, CU only), then counts for all populated channel units will be printed. Due to the amount of time required to collect data for a CU, this option is only allowed for single-port ALE requests.

h[1] = The PKTDN associated with the port. This parameter can only be used to identify channels associated with DSLs.

i[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`o`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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g[2] = ATM LINK unit number.

h[2] = Virtual connection identifier (VCID). Refer to a PVC on a given PSU ATM link.

4. SYSTEM RESPONSE

NG = No good. This request was not recognized, or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature is not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- PROCESS CREATION FAILURE = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

PF = Printout follows. The request has been accepted and is followed by the EXC:ALE output message.

RL = Retry later. May also include:
- ALE ACTIVE = Only one ALE session may be requested at a time. Wait for completion or stop ALE manually.
- AM IN MIN MODE = The AM is in minimum operation mode.

5. REFERENCES

Input Message(s):

```
ALW:ALE
INH:ALE
OP:ALE
STP:ALE
```

Output Message(s):

```
ALW:ALE
EXC:ALE
EXC:ALE-LVL1
EXC:ALE-LVL2
EXC:ALE-PER
INH:ALE
OP:ALE
REPT:ALE-LEVEL1
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-600-755 *Protocol Error Record Descriptions*

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EXC:ALE-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels. ALE can be requested for an individual ISDN protocol channel [such as, digital subscriber line (DSL)], a DSL group, or an entire switching module (SM). However, only one user-requested ALE can be in progress at a time. Line evaluation may be specified to include level 1 and level 2 error counts and protocol error records (PERs). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

Level 1 applies to U-interface digital subscriber lines (U-DSLs) and retrieves physical layer error counts stored in the integrated services line unit (ISLU or ISLU2) U-card termination or the integrated digital carrier unit (IDCU) TR303 U-card terminations. Some additional error counts are available for *ANSI*® U-cards; current (CURR) hour, previous (PREV) hour, hour (HOUR), interval (INT), and day (DAY) counts, as well as the history (HIST) for the last eight intervals. U-DSLs equipped with channel units (CUs) make available the current and previous interval counts using the CU option.

Level 1 also applies to basic rate interface transmission extension (BRITE) channel units for interfaces supported by *ANSI*® U-cards. The CU option must be specified in the input message in order to retrieve or reset the error counts on these channel units. For interfaces that do not support or have no equipped channel units, the CU option will have no effect on the retrieval of data.

INT and DAY counts are accumulations of CURR counts, and are updated hourly. If either the INT or the DAY counters are reset, they will be updated with the contents of the CURR counter at the next hourly interval. Therefore, if a true zero starting point is needed, it is necessary to reset the CURR counter at the same time the INT and/or DAY counters are reset.

Level 1 requests that immediately following the inhibiting (INH:ALE) of ISDN, protocol channels may give an erroneous indication that the level 1 error counts are increasing. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes. Level 1 requests that immediately following the allowing (ALW:ALE) of ISDN, protocol channels may give an erroneous indication that the level 1 error counts are not incrementing. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes.

Level 1 requests on embedded operation channels (EOC) or timeslot management channels (TMC) are not supported.

Level 2 applies to all ISDN protocol channels and retrieves frame error information stored in the protocol handler (PH). Any of the level 1 or level 2 counts may be reset to zero by using the RESET or SRESET option. Normally only DSLs with either off-normal level 2 counts, or level 1 counts that have exceeded thresholds, are reported. A full report of all DSLs is available by specifying FULL. The FULL option is always implied for level 1 on IDCU terminations.

PER reporting retrieves the protocol error history for an ISDN protocol channel stored in the SMs. The protocol error histories can also be reset using one of the RESET options. In addition, the FROM, TO, and LAST options can be used to retrieve PER histories for specified time periods and for specified counts.

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The default request is execution of level 2 and PER reporting.

After the introduction of PCF on PHE2 feature, PER should be able to provide the protocol error histories on A10/A11/ETHERNET protocols on PCF PH. There are two kinds of PERs: level 2 and level 7. Level 2 PER retrieves the ethernet protocol error histories stored in the PH. Level 7 retrieves A10/A11 error histories stored in PH. The are two formats listed below: Format 1 is for ISDN ALE, and Format 2 is for PCF ALE.

2. FORMAT

```
[1]    EXC:ALE,a[,CH=y][,z][,LAST=a1][,FROM=b1b1-b1b1-b1b1][,TO=e1e1-e1. . .
       . . .e1-e1e1]. . .
       . . .[,LEVEL1[=f1][,CU[=g1]]][,LEVEL2][,FULL][,PER][,PRINT];
       ____________________________________________________________
```

```
[2]    EXC:ALE,i2[,z],PER[,LAST=a1][,FROM=b1b1-b1b1-b1b1]. . .
       . . .[,TO=e1e1-e1e1-e1e1][,PRINT];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`FULL` = For level 1 requests, report counts for all specified line terminations, not just the ones that exceeded a threshold. All IDCU terminations have an implied FULL option for level 1 requests. For level 2 requests, lines with insufficient level 2 error information will also be reported.

`LEVEL1` = Evaluate level 1 errors in the ISLU and/or IDCU U-DSL physical layer counters.

`LEVEL2` = Evaluate level 2 errors in packet handler counters (default).

`PRINT` = Send the output to the ROP and switching control center (SCC) as well as to the requesting terminal. The default is to send the output only to the requesting terminal.

`a` = Line identification. Valid value(s):

`AIUEN=d-u1-v1-w1`
`BST=b-c`
`DEN=d-e-f-g`
`DN=h`
`DNUSEOC=d-l1-v-x`
`DNUSTMC=d-l1-v-x`
`DSLGM=d-q1-i-j` = The parameters for DSLGM have more latitude than other identifiers.
The 4 legal forms in increasing scope are:
DSLGM=sm-psunum-group-member = An individual DSLGM.
DSLGM=sm-psunum-group-ALL = All members of a DSLGM group.
DSLGM=sm-psunum-ALL-ALL = All members of a PSU
DSLGM=sm-ALL-ALL-ALL = All DSLGM on an SM (same as sm= option).
DSLGM=ALL-ALL-ALL-ALL = Entire office.

Any attempt to mix and match the ALL option with the other parameters will result in propagation of the ALL option to the lower order fields. For example:

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DSLGM=8-ALL-ALL-7 is transformed to DSLGM=8-ALL-ALL-ALL before it is acted upon.

```
ATMPP=d-q1-g2-h2
IDCUEOC=d-u-v-x
IDCUTMC=d-u-v-x
ILEN=d-u-v-w
INEN=d-l1-v-w
LCEN=d-k-l-m
LCKEN=d-i1-t1-j1-k1
MLHG=n-o
NEN=d-l1-m1-x1-n1-o1-y1-p1
OAPO=b
OIUEN=d-k2-l2-m2-n2-o1-y1-p1
OPT=b-c
PKTDN=h1
PLTEN=d-z1-a2-b2-c2
PORT=d-p
PSUEN=d-q1-r1-s1-j
RTRS=q-r
SM=c1[&&d1]
TKGMN=s-t
VBRI=d-d2
VTRK=d-e2-f2
```

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = The DN associated with the port. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.

i = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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k = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Channel type (valid for LEVEL2 and PER requests when using LCEN line identification and for DN/MLHG line identification when the line supports packet switching common DN). Valid value(s):

B1 = Channel B1.
B2 = Channel B2.
D = D-channel.

NOTE: The request will be rejected when the channel type is specified, the line is provisioned for on-demand packet service, and both B-channels are available to be used by the on-demand packet service. In this case, there is no direct relationship between the

on-demand packet service and a B-channel. Using channel type for LEVEL1 requests is invalid.

z = Reset option. PER's are reset without regard to time ranges specified on the input request line. The counters are not cleared unless the reset or silent reset option is included in the input request. Valid value(s):

RESET = Reset error counts and clear PER tables. Before the reset, requested data will be sent to the receive-only printer (ROP).

SRESET = Silently reset error counts. Reset error counts and clear PER tables, but do not report present values.

a[1] = The maximum number of PERs, per DSLGM, to be included in the report. The PERs retrieved are the last PERS within the specified time period.

b[1] = Start of time period, in the form hours-minutes-seconds.

c[1] = SM number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = End of time period, in the form hours-minutes-seconds.

f[1] = Count specifier. Valid value(s):

ALL = All of the above counts.

CURR = Current hour, interval, and day counts (default).

DAY = Current and previous day counts.

DISK = Report data stored in disk file. This command accepts two line identifications. Valid value(s):

— SM line identification or,

— Single Line identification.

HIST = Recent interval history.

HOUR = Current and previous hourly line card counts.

INT = Current and previous interval counts.

PREV = Previous hour, interval, and day counts.

g[1] = Channel unit(s) for which current and interval counts are sought. If the CU option is not followed by a specific channel unit number (that is, CU only), then counts for all populated channel units will be printed. Due to the amount of time required to collect data for a CU, this option is only allowed for single-port ALE requests.

h[1] = The PKTDN associated with the port. This parameter can only be used to identify channels associated with DSLs.

i[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`j`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`b`[2] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = ATM LINK unit number.

`h`[2] = Virtual connection identifier (VCID). Refer to a PVC on a given PSU ATM link.

`i`[2] = PCF IP address. Valid value is:

PCFIP=j^2-j^2-j^2-j^2

`j`[2] = IP address field. Valid value is 0-255.

`k`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[2] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[2] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. This request was not recognized, or was not acceptable. May also include:

- `ALE FEATURE NOT LOADED` = The ALE feature is not loaded in the switch software configuration.
- `COMMUNICATION FAILURE` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `PROCESS CREATION FAILURE` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

`PF` = Printout follows. The request has been accepted and is followed by the EXC:ALE output message.

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`RL` = Retry later. May also include:
- `ALE ACTIVE` = Only one ALE session may be requested at a time. Wait for completion or stop ALE manually.
- `AM IN MIN MODE` = The AM is in minimum operation mode.

5. REFERENCES

Input Message(s):

```
ALW:ALE
INH:ALE
OP:ALE
STP:ALE
```

Output Message(s):

```
ALW:ALE
EXC:ALE
EXC:ALE-LVL1
EXC:ALE-LVL2
EXC:ALE-PER
INH:ALE
OP:ALE
REPT:ALE-LEVEL1
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-600-755 *Protocol Error Record Descriptions*

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EXC:AUD-SODD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Format 1 restarts a full or incremental static office-dependent data (SODD) audit that was previously executing but was stopped for some reason, provided that the conditions permit it to be restarted.

Format 2 requests the immediate execution of an entity SODD audit depending on the parameters specified. It is also used to restart a previously-executing processor entity SODD audit that has been stopped for some reason. A processor entity audit can be restarted numerous times with this input message, but there are limitations:

- If, after the processor entity audit has been stopped, the same EXC:AUD-SODD input message that was used to start it is re-entered within 24 hours from when the audit was stopped, the audit will resume from the point at which it left off during its previous execution.
- If, after the processor entity audit has been stopped, the same EXC:AUD-SODD input message that was used to start it is re-entered more than 24 hours from when the audit was stopped, the audit will start from the beginning (that is, with the first relation on the processor.) It will not resume from the point at which it left off.
- If, after the processor entity audit has been stopped, a different EXC:AUD-SODD input message is used to start a new processor entity audit, the one that was previously stopped will be abandoned (that is, it can never be restarted.)

Format 3 requests the immediate execution of an SODD entity audit on the business and residential customer services (BRCS) relations by specifying one modular feature type (MFT) or all MFTs on one specific processor.

2. FORMAT

```
[1]    EXC:AUD=SODD,{FULL|INCR};
       ____________________________________________________________

[2]    EXC:AUD=SODD,{TN=a|OE="b"|RELATION="c"|PARAMETER=c[2],{AM|SM=d|CMP}|
       MLHG=e[,MEMB=f]|TGN=g[,MEMB=h]|[TORELEASE="w[1]"]};
       ____________________________________________________________

[3]    EXC:AUD=SODD,BRCS,MFT=x[1],{AM|CMP|SM=y[1]};
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`AM` = Administration module (AM). The processor on which the relation, as specified in '`c`', is to be audited.

`CMP` = Communications module processor (CMP). The processor on which the relation, as specified in '`c`', is to be audited.

`FULL` = The full SODD audit is to be restarted. The audit will only be restarted provided there are at

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least 15 minutes remaining in the audit schedule (refer to the SCHED:AUD-SODD input message).

INCR = The incremental SODD audit is to be restarted. The audit will only be restarted provided there are unaudited log files from the last ODD backup.

a = Telephone number to be audited.

b = Office equipment type and number to be audited.

Office equipment types. Valid value(s):

C = Integrated services line unit with Z card (ISLU-Z) analog line card in the form Cdddijjkk.
D = Digital equipment number (DEN) in the form Ddddlmmnn.
E = Access interface unit (AIU) in the form $Edddz^1z^1z^1a^2a^2b^2b^2$.
G = IDCU gama equipment number (GEN) in the form Gdddooppqqqq.
I = ISDN digital (U & T card) integrated services line unit equipment number in the form Idddijjrr.
K = Analog line circuit equipment number (LCKEN) in the form $Ldddm^1m^1n^1n^1o^1p^1p^1$.
L = Analog line unit equipment number (LEN) in the form Ldddssstuvw.
N = DNU-S equipment number (NEN) in the form $Nddde^1f^1u^1g^1q^1r^1i^1i^1$.
O = Optical interface unit equipment number (OIUEN) in the form $Odddh^1s^1t^1v^1q^1r^1i^1i^1$.
P = Logical test port (LTP) equipment number in the form Pdddxxx.
R = Recorded announcement function (RAF) equipment number in the form Rdddyzz.
S = Digital carrier *SLC®* line unit equipment number (SLEN) in the form $Sddda^1ppqq$.
T = Analog trunk unit equipment number (TEN) in the form $Tdddb^1uc^1d^1$.
U = Packet switch unit equipment number (PSUEN) in the form $Udddj^1k^1l^1l^1l^1zzz$.

Office equipment acronyms. Valid value(s):

CHGRP = Channel group.
CKT = Circuit number.
DCHAN = Digital channel.
DCLU = Digital carrier line unit.
DFI = Digital facility interface.
DG = Data group.
DLTU = Digital line and trunk unit.
DNU-S = Digital networking unit - synchronous optical network (SONET).
DS0 = Digital signal level 0.
IDCU = Integrated digital carrier unit.
ISLU = Integrated services line unit.
LBD = Line board.
LC = Line card.
LC = Line circuit.
LCKT = Line circuit.
LG = Line group.
LGC = Line group controller.
LP = Line pack.
LU = Line unit.

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LVL = Level.
OIU = Optical interface unit.
PSU = Packet switch unit.
RT = Remote terminal.
RU = Receive unit.
SM = Switching module.
STS = Synchronous transport signal.
SW = Switch number.
SWG = Switch group.
TU = Trunk unit.
VT = Virtual tributary.
ZLC = Analog line card.

c = Static relation to be audited, or "ALL" if all relations on a specific processor are to be audited (that is, a processor entity audit). Legal, auditable relation names can be found in the Routine Operations and Maintenance Manual. At most, eight characters are required for a relation name. If more than eight are entered, they are considered significant and matched. Some relations will only work with eight characters entered (for example, FC_PORTT for FC_PORTTYP).

d = Switching module (SM) to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relation, as specified in 'c', is to be audited.

e = Multi-line hunt group to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Member of multi-line hunt group to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Trunk group number to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Member of trunk group number to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line group controller (LGC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Analog line card (ZLC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital channel (DCHAN) number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

o = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Line card (LC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Line unit (LU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Concentrator. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Switch group (SWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Switch (SW) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Level (LVL) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Receive unit (RU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Trunk unit (TU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Circuit (CKT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of

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the Input Messages manual.

g[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[1] = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = Channel group (CHGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = Integrated services line unit-2 (ISLU-2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[1] = Line group (LG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[1] = Line board (LBD) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[1] = Line circuit (LCKT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[1] = Virtual tributary 1.5 group (VTGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[1] = Virtual tributary 1.5 member (VTMEM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[1] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = SONET terminating equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = STS - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Release to which the office will retrofit. The TORELEASE parameter is used exclusively for the on-switch hardware check audit. Refer to the Switch Software Release Retrofit Procedures manual for valid selections.

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x[1] = Name of MFT to be audited or "ALL" if all MFTs are to be audited. Valid value(s):

ALL	= All modular feature types.
AC	= LASS Automatic callback.
ACB	= Auto-call-back calling.
ACCT	= Account code.
ACSR	= Automatic customer station rearrangement.
ACTR	= Attendant control.
AR	= LASS automatic recall.
ARS	= Automatic route selection.
ASI	= Advanced service interface.
ASPN	= Advanced services platform - non-call.
ASPO	= Advanced services platform originating.
ASPT	= Advanced services platform terminating.
ATH	= Authorization code.
BCL	= Bulk calling line identification.
CFW	= Call forwarding.
COT	= Customer originated trace.
CPI	= CPN features.
CWT	= Call waiting.
DISP	= Display features.
DR	= Distinctive ringing.
EDS	= Electronic dictionary services.
HI	= Home intercom single line variety.
ICM	= ISDN intercom.
ID	= Individualized dialing.
LID	= Line identification features.
MDR	= Message detail recording.
MDS	= Message desk service.
MWY	= Multi-way calling.
PFA	= Private facility access.
PP	= Precedence and preemption.
PUO	= Pick up originating.
PUT	= Pick up terminating.
RND	= Redirecting number delivery.
SC	= Speed calling.
SCA	= Selective call acceptance.
SCF	= Selective call forwarding.
SCR	= Selective call rejection.
SDA	= Selective distinctive alert.
TGR	= Terminal group.
TOD	= Time of day.

y[1] = Switching module (SM) being audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relations associated with the MFT, as specified in 'x[1]', are being audited.

z[1] = AIU number to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`a`[2] = Line pack (LP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual (AIUEN).

`b`[2] = Line circuit (LC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual (AIUEN).

`c`[2] = Static global parameter to be audited. Legal, auditable global parameter names can be found in the Routine Operations and Maintenance Manual. At most, eight characters are required for a global parameter name. If more than eight are entered, they are considered significant and matched.

4. SYSTEM RESPONSE

`OK` = The full or incremental SODD audit has been allowed to restart.

`PF` = Printout follows. May also include:
`-OP AUD=SODD MESSAGE FOLLOWS` = Followed by an OP:AUD-STATUS or OP:AUD-ERROR output message.

5. REFERENCES

Input Message(s):

```
STP:AUD-SODD
OP:AUD-ERRLOG
OP:AUD-SODD
```

Output Message(s):

```
OP:AUD-STATUS
OP:AUD-ERROR
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-10x *Software Release Retrofit Procedures*

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EXC:BICCBMOVE

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Execute a BICC CIC block reallocation process. This request will redistribute BICC CIC blocks among BICC CIC enabled SM-2000s. Refer to RC/V View 5.70 for additional information.

WARNING: This request can not be run during a retrofit and only one BICCBMOVE request can be run at a time.

Formats 1 is used to distribute BICC CIC blocks to newly defined BICC SMs (destination SM) from previously defined BICC SMs (source SM).

Formats 2 is used to remove BICC CIC blocks from previously defined BICC SMs.

Formats 3 is used to move a single BICC CIC block from its current SM to another SM.

2. FORMAT

```
[1]    EXC:BICCBMOVE,ADDSM,SRCSM=a[,a][,a],DESTSM=b[,b][,b][[[,CAMP=c]. . .
       . . .[,KILL=d]]|[,UCL]];

[2]    EXC:BICCBMOVE,DELSM,SRCSM=a[,a][,a],DESTSM=b[,b][,b][[,CAMP=c]|[,UCL]];

[3]    EXC:BICCBMOVE,MOVE,BGMN=e-f,DESTSM=b[,b][,b][[,CAMP=c]|[,UCL]];
```

3. EXPLANATION OF MESSAGE

`a` = Source switching module (SM). Valid value(s):
SM number = SM number(s). Refer to RC/V View 5.70.
`ALL` = All SMs. Refer to RC/V View 5.70.

`b` = Destination SMs. Valid value(s):
SM number = SM number(s). Refer to RC/V View 5.70.
`ALL` = All SMs. Refer to RC/V View 5.70.

`c` = Campon time (minutes). This is a definition of how long calls can remain active. This field is used in conjuction with the KILL parameter. If CAMP is not specified, the value found in RC/V View 8.1 will be used.

`d` = Kill indicator. This parameter is used in conjuction with the CAMP parameter. If KILL is not specified, the value found in RC/V View 8.1 will be used. Valid value(s):
`N` = Do not kill calls at the end of campon time.

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`Y` = Kill calls at the end of campon time.

`e` = BICC group number. BICC groups must have been defined previously.

`f` = BICC group member range. The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127). The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).

4. SYSTEM RESPONSE

`NG` = No Good. The request has been denied. May also include:

- `INVALID SOURCE SM'S` = SRCSM field contains invalid SMs.
- `INVALID DESTINATION SM'S` = DESTSM field contains invalid SMs.
- `FOR ADDSM, DESTINATION SM(S) MUST BE SPECIFIED` = EXC:BICCBMOVE,ADDSM must specify destination SMs.
- `FOR DELSM, SOURCE SM(S) MUST BE SPECIFIED` = EXC:BICCBMOVE,DELSM must specify source SMs.
- `INVALID MEMBER RANGE` = BGMN field contains an invalid member range.
- `MEMBER RANGE MUST BE ONE CIC BLOCK` = BGMN member range must represent one BICC CIC block (128 CIC's).
- `BICC GROUP DOES NOT EXIST` = BGMN bicc group does not exist.
- `BICC GROUP MEMBERS DO NOT EXIST` = BGMN member range (BICC CIC block) does not exist.
- `ONLY ONE DESTINATION SM CAN BE ENTERED` = EXC:BICCBMOVE,MOVE can only specify one destination SM.
- `SOURCE SM'S AND DESTINATION SM'S MUST BE UNIQUE` = An SM cannot be in both the DESTSM and SRCSM fields.
- `SOURCE SM'S MUST BE UNIQUE` = An SM cannot appear twice in the SRCSM field.
- `DESTINATION SM'S MUST BE UNIQUE` = An SM cannot appear twice in the DESTSM field.
- `SOURCE SM'S MUST BE DEFINED ON RC/V 5.70` = SMs in the SRCSM field must be previously defined on RC/V View 5.70.
- `DESTINATION SM(S) MUST HAVE INH DIST SET TO 'N' ON RC/V 5.70` = SMs in the DESTSM field must have INH DIST set to "N" on RC/V View 5.70
- `DESTINATION SM'S MUST BE DEFINED ON RC/V 5.70` = SMs in the DESTSM field must be previously defined on RC/V View 5.70.
- `FOR DESTSM=ALL, AT LEAST 1 SM2K MUST HAVE INH DIST SET TO 'N' ON RC/V 5.70` = DESTSM=ALL must have at least one SM on RC/V View 5.70 has INH DIST set to N
- `NOT ENOUGH ROOM TO MOVE BICC CIC BLOCKS` = There is no room for BICC CIC blocks for request.
- `FOR ADDSM, BICC CIC BLOCKS CANNOT EXIST ON DESTINATION SM(S)` = EXC:BICCBMOVE,ADDSM must have SMs in DESTSM with no BICC CIC blocks.

`PF` = Printout Follows. The request has been accepted. Followed by the EXC:BICCBMOVE output message.

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`RL` = Retry Later. May also include:
- `CIC ALLOCATION PROCESS ALREADY RUNNING` = EXC:BICCBMOVE is currently running.
- `BICC CIC BLOCKS DO NOT EXIST IN OFFICE` = No BICC CIC blocks exist in the office.
- `AN SM2K IS UNAVAILABLE` = An SM is currently unavailable.

5. REFERENCES

Input Message(s):

```
OP:BICCBMOVE
```

Output Message(s):

```
EXC:BICCBMOVE
OP:BICCBMOVE
```

RC/V View(s):

5.70	CIC DISTRIBUTION
8.1	OFFICE PARAMETERS

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EXC:BICCCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Executes a bearer independent call control (BICC) call instance code (CIC) query (BQ) request. These requests locate and optionally correct inconsistencies between near-end and far-end call processing and maintenance states of BICC CICs.

Inconsistencies are corrected by default, but can be inhibited (refer to variable 'a' for details). If requested, detailed output reports with per-BICC CIC status will be displayed (refer to variable 'd' for details). Concurrent outgoing BQ requests are restricted by specific rules:

When an office-wide BQ request is running, no other BQ request may be active. This includes automatic and demand BQ requests.

Up to four concurrent non-office-wide BQ requests can be active in the office.

BQ requests cannot be run concurrently with the same originating point code (OPC)-destination point code (DPC) assignment. This restriction applies to all OPC-DPC, BICC group (BG) and BICC group member number (BGMN) requests. For example, a BG request will be denied if another BG, OPC-DPC or BGMN request is active for the OPC-DPC provisioned for that requested BG.

Format 1 is used to initiate a BICC CIC query process on every provisioned BICC CIC in the office. The office-wide request always produces shortened output.

Format 2 is used to initiate a BICC CIC query process on every provisioned BICC CIC with the specified OPC-DPC route. Selectable output message report types are SHORT and LONG, with FORM=SHORT being the default.

Format 3 is used to initiate a BICC CIC query process on every member in the specified BG. Selectable output message report types are SHORT and LONG. FORM=SHORT is the BG default.

Format 4 is used to initiate a BICC CIC query process specifying a BGMN. Selectable output message report types are SHORT, LONG and EXPANDED, with FORM=EXPANDED being the default.

Note: For a specific BQ request to be executed, the affected BG(s) must be allowed for BQ operation on the recent change and verify (RC/V) view 5.1.

2. FORMAT

```
[1]    EXC:BICCCQ,OFFICE[,CORRECT=a];

[2]    EXC:BICCCQ,OPC=b,DPC=c[,CORRECT=a][,FORM=d];

[3]    EXC:BICCCQ,BG=e[,CORRECT=a][,FORM=d];

[4]    EXC:BICCCQ,BGMN=e-f[&&g][,CORRECT=a][,FORM=d];
```

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3. EXPLANATION OF MESSAGE

a = Indication of whether correction should be taken if status mismatches are detected. Valid values:

ALW = Allow (default).

INH = Inhibit.

b = Originating point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

c = Destination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

d = The output message report type. Valid values:

SHORT = Matched, mismatched and undetermined summary counts are displayed.

LONG = Matched, mismatched and undetermined summary counts are displayed, in addition to all status combinations encountered that mismatch.

EXPANDED = Matched, mismatched and undetermined summary counts are displayed, in addition to all status combinations. This option will print output for each BICC CIC queried regardless of the far-end statuses returned. However, output is limited to ranges spanning 128 CICs or less.

Note: LONG or EXPANDED output is printed only for CICs where a far-end CIC status has been received from the far-end.

e = BICC group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = BICC group member number or lower limit of a range of BICC group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Upper limit of a range of BICC group member numbers. If this value exceeds the maximum BICC group member number in the office, it will be adjusted to that maximum. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:

- BQ INHIBITED FOR THIS BG = BICC CIC query is not allowed for this BICC GROUP. Refer to RC/V view 5.1.
- BQ INVALID FOR BICC SERVICE GRPS = BICC CIC query is not allowed for a BICC GROUP that is defined as a service group.
- DATABASE ERROR = An unrecoverable database error has occurred.

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- INVALID BICC GROUP = The target BICC GROUP is not equipped.
- INVALID BG MEMBER NUMBER OR RANGE = The target BICC group member is not equipped, or a range was specified with the same low member and high member, or the reange entered conflicts with the FORM option specified.
- INVALID OPC ENTERED = The OPC entered is not a valid opc.
- INVALID DPC ENTERED = The DPC entered is not a valid DPC or the DPC entered is valid but is not paired with the specified OPC.
- INVALID SIGNALING TYPE = The target BICC GROUP is not a BICC CIC GROUP.
- NO BICC CICS ASSIGNED TO OPC/DPC = No BICC CICS are provisioned for the specified OPC-DPC pair.

PF = Printout follows. The request has been accepted. Followed by an EXC:BICCCQ output message.

RL = Retry later. May also include:
- CONFLICTING BQ REQUEST ACTIVE = Another query request associated with the same OPC-DPC pair is already running, or an office-wide query was requested and an office-wide query is already running, or an office-wide query was requested and other types of BQ requests are running.
- FAILED TO CREATE PROCESS = System resources are not available to start the appropriate process needed to execute this input message.
- TOO MANY BQ REQUESTS = There can only be four non-office-wide BQ requests running at the same time.

5. REFERENCES

RC/V View(s):

5.1 (BICC GROUP)

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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EXC:BRCS

Software Release: 5E15 and later
Command Group: BRCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Allows the user to run the business and residential custom services (BRCS) feature usage audit and remove unused BRCS constructed features from the switch. If executed without parameters, it restores the audit suspended per a user request.

WARNING: Do not run the audit tool during retrofits, as there is a possibility that an installed constructed feature may be removed in error. Do not assign constructed features when run the audit tool is running. The removal of Unused Constructed Features must not occur if any SM is not operational. It is absolutely necessary to wait until all EXC:BRCS requests, currently being in progress, are completed, before retrofit can be started.

2. FORMAT

```
EXC:BRCS:[AUD=a,FEAT=b[,DELETE=c]];
```

3. EXPLANATION OF MESSAGE

`a` = Audit range. Valid value(s):
- `ALLF` = Audit all features.
- `TYPE` = Audit selected type of BRCS feature.
- `FEAT` = Audit one BRCS feature (the `DELETE` option must be specified).

`b` = Feature type or name. If variable '`a`' equals `FEAT`, feature name. If variable '`a`' equals `TYPE`, 1-45.
- 1 = Reserved.
- 2 = Call waiting.
- 3 = Call forwarding.
- 4 = Terminal group.
- 5 = Time of day.
- 6 = Multi-way calling.
- 7 = Call pickup originating.
- 8 = Call pickup terminating.
- 9 = Automatic route selection.
- 10 = Private facilities access.
- 11 = Distinctive ringing.
- 12 = Multi-line hunt.
- 13 = Automatic call back.
- 14 = Modular queuing.
- 15 = Precedence and preemption.
- 16 = Account code.

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17 = Message detail recording.
18 = Authorization codes.
19 = LASS automatic call back.
20 = LASS automatic recall.
21 = LASS customer originated trace.
22 = ISDN automatic customer rearrangement.
23 = Reserved.
24 = Electronic directory service.
25 = Message service system.
26 = Display feature.
27 = Line identification.
28 = ISDN intercom.
29 = Attendant control of voice terminals.
30 = Individual dialing.
31 = Speed calling.
32 = LASS selective call acceptance (CAR).
33 = LASS selective call forwarding.
34 = LASS selective call rejection.
35 = LASS selective distinctive alert.
36 = Calling party number.
37 = Home intercom.
38 = Redirecting number delivery.
39 = Bulk calling line identification.
40 = Advanced service interface.
41 = Advanced service platform originating.
42 = Advanced service platform terminating.
43 = Reserved.
44 = Reserved.
45 = Advanced services platform non-call.

c = Request the feature to be removed. Valid value(s):
`Y` = Deletes the feature.
`N` = Audits only.

4. SYSTEM RESPONSE

IP = In progress. Followed by the EXC:BRCS output messages.

NG = No good. The request was denied.

5. REFERENCES

Input Message(s):

```
OP:BRCS-STATUS
STP:BRCS
```

Output Message(s):

```
EXC:BRCS
OP:BRCS-STATUS
```

Other Manual(s):
235-118-251 *Recent Change Procedures*
235-190-103 *BRCS Feature Description*

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EXC:CCS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the message transfer part (MTP) route verification test (MRVT) be initiated. The requested test is run, and the report is written to the MTCE message class and/or the standard output. Requests that the signaling connection control port (SCCP) routing verification test (SRVT) be initiated.

2. FORMAT

```
[1]    EXC:CCS,MRVT,DPC=a,OPC=b,[STPS=c],[TRACE]

[2]    EXC:CCS,SRVT,TT=a,DIGITS=b,OPC=c,[NTSP=d],[TPC=e],[TRACE]
```

3. EXPLANATION OF MESSAGE

`a` = Destination point code (DPC) being tested is a nine digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

`b` = Origination point code (OPC) that originates test is a nine digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

`c` = Max number of signaling point codes to traverse. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`TRACE` = Include traces of STPs crossed during the test in the output if the test was a success.

`d` = Actual number of GTTs allowed before reaching final destination. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Translation point code to which the initiator should address and send an SRVT message is a nine digit number. If not entered, the default is chosen based on provisioned SCCP data associated with the translation type and digits. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual for valid point code formats.

4. SYSTEM RESPONSE

`PF` = Printout follows. Valid value(s):

- `PRINTOUT FOLLOWS` = The request has been accepted. Followed by the EXC:CCS-MRVT or EXC:CCS-SRVT output message.

`NG` = No good. Valid value(s):

- `INVALID OPC` = The OPC is not associated with any GSM local point code.
- `INVALID OPC FORMAT` = The OPC is not in the correct *ANSI*®/AT&T format.
- `REQUESTED DPC IS SAME AS OPC` = The DPC is the same as the OPC.

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- `INVALID DPC FORMAT` = The DPC is not in the correct *ANSI*®/AT&T format.
- `INVALID OPC` The OPC is not associated with any GSM local point code.
- `INVALID OPC FORMAT` = The OPC is not in the correct *ANSI*®/AT&T format.
- `INVALID TPC FORMAT` = The translation point code is not in the correct format.
- `TPC IS SAME AS OPC` = The TPC is the same as the OPC.

`RL` = Retry later. Valid value(s):

- `SM NOT AVAILABLE` = The designated GSM is not available due to MIN-MODE, ISOLATION, or INITIALIZATION.
- `SM NOT AVAILABLE` = The designated GSM is not available due to MIN-MODE, ISOLATION, or INITIALIZATION.

5. REFERENCES

Output Message(s):

`EXC:CCS-MRVT`

Input Appendix(es):

`APP:RANGES`
`APP:POINT-CODE`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

RC/V View(s):

16.4 (OMAP ROUTE VERIFICATION TEST TIMER PARAMETERS)

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EXC:CCSCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Execute a circuit query (CQ) request. These requests locate and optionally correct inconsistencies between near-end and far-end call processing and maintenance states of CCS7 trunks.

Inconsistencies are corrected by default, but can be inhibited by using the CORECT=INH option.

If requested, detailed output reports with per-circuit status will be displayed. The FORM=LONG option will print all status combinations where a mismatch is detected between the near-end and far-end offices. The FORM=EXPANDED option will print all status combinations encountered. The FORM=SHORT option produces only summary counts of matched, mismatched and undetermined status combinations detected.

WARNING: When an office-wide CQ request is running, no other CQ request may be active. This includes automatic and demand CQ requests.

Up to 4 concurrent non-office-wide CQ requests can be active in the office.

CQ requests can not be run concurrently with the same OPC-DPC assignment. This restriction applies to all OPC-DPC, TG, and TKGMN requests. For example, TG request will be denied, if another TG, OPC-DPC, or TKGMN request is active for the OPC-DPC provisioned for that requested TG.

Format 1 is used to initiate a circuit query process on every provisioned CCS trunk in the office. The office-wide request always produces shortened output.

Format 2 is used to initiate a circuit query process on every provisioned CCS trunk with the same OPC-DPC route. Selectable output report types are SHORT and LONG, with FORM=SHORT being the default.

Format 3 is used to initiate a circuit query process on every member in the specified trunk group (TG). Selectable output report types are SHORT, LONG, and EXPANDED. FORM=SHORT is the TG default.

Format 4 is used to initiate a circuit query process specifying a trunk group member number (TKGMN). Selectable output report types are SHORT, LONG and EXPANDED, with FORM=EXPANDED being default.

For a specific input message to execute, the affected TG must be allowed for CQ operation on RC/V View 5.1.

2. FORMAT

```
[1]    EXC:CCSCQ,OFFICE[,CORRECT=a];
       ____________________________________________________________

[2]    EXC:CCSCQ,OPC=b,DPC=c[,FORM=d][,CORRECT=a];
       ____________________________________________________________
```

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[3] `EXC:CCSCQ,TG=e[,FORM=d][,CORRECT=a];`

---

[4] `EXC:CCSCQ,TKGMN=e-f[,FORM=d][,CORRECT=a];`

---

3. EXPLANATION OF MESSAGE

`a` = Indication of whether correction that should be taken if status mismatches are detected. Valid value(s):

`ALW` = Allow (default).

`INH` = Inhibit.

`b` = Origination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

`c` = Destination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

`d` = The output report type. Valid value(s):

`SHORT` = Matched, mismatched and undetermined summary counts are displayed.

`LONG` = Matched, mismatched and undetermined summary counts are displayed, in addition to all statuses combinations encountered that mismatch.

`EXPANDED` = Matched, mismatched and undetermined summary counts are displayed, in addition to all statuses combinations. This report option will print output for each circuit queried regardless of the far-end statuses returned.

`e` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. May also include:

- `INVALID OPC or DPC` = DPC or OPC is in the wrong format or is not provisioned for any trunk group in the office.
- `INVALID SIGNALING TYPE` = The target trunk group is not a CCS trunk group.
- `INVALID TRUNK GROUP` = The target trunk group is not provisioned in the office.
- `CQ INHIBITED FOR THIS TG` = Circuit query is not allowed for this trunk group. Refer to RC/V View 5.1
- `INVALID TG MEMBER` = The target trunk member is not equipped.
- `DATABASE ERROR` = An unrecoverable data base error has occurred.

`PF` = Printout follows. The request has been accepted. Followed by the EXC:CCSCQ output message.

`RL` = Retry later. May also include:

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- `OPC/DPC or TG REQUEST ALREADY RUNNING` = An office-wide query request can only execute if no other CQ requests are running.
- `CQ REQUEST ACTIVE ON SAME OPC/DPC` = Another query request associated with the same OPC-DPC pair is already running.
- `OFFICE REQUEST ALREADY RUNNING` = Only one office-wide query request can be executed at any time.
- `TOO MANY CQ REQUESTS` = There can only be four non-office-wide CQ requests running at the same time.
- `TOO MANY PROCESSES ACTIVE` = The number of processes that can be run by the ATA process has been reached. Use OP:JOBSTATUS to view the current status.
- `FAILED TO CREATE PROCESS` = System resources are not available to start the appropriate process needed to execute this input message.
- `CNI TO PSU CONVERSION IN PROGRESS` = The system is not available due to the processing of CNI to PSU conversion.

5. REFERENCES

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

RC/V View(s):
5.1 TRUNK GROUP

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EXC:CCSXLATE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Initiates the common channel signaling (CCS) translation test (or circuit validation) for a specific CCS7 trunk. Translation testing checks for consistency between near-end office-dependent data (ODD), as well as the following characteristics between near-end (NE) and far-end (FE) offices: double seizure control (DSC), circuit group carrier (CGC), circuit identification name (CIN), and *Common Language*® location identifier (CLLI).

The following additional fields are displayed for both NE and FE, but not checked for consistency: alarm carrier indicator (ACI), and continuity check indicator (CCI). ACI and CCI consistency is not important to carrying call traffic. Also, DSC is not checked for one-way trunks.

The request will not be denied if a call or trunk maintenance activity is in progress on this trunk. Furthermore, it does not impact on any current activity on this trunk.

2. FORMAT

```
EXC:CCSXLATE,TKGMN=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. May also include:
- `DATABASE ERROR` = Required information could not be obtained from the database.
- `INVALID SIGNALING TYPE` = The trunk group specified is not a CCS trunk group.
- `INVALID TRUNK MEMBER` = The trunk member is not provisioned.
- `INVALID TRUNK GROUP` = The trunk group is not provisioned.
- `TRANS TEST INHIBITED FOR THIS TG` = Trunk translation test requests have been inhibited by using RC/V View 5.1.

`PF` = Printout follows. The request has been accepted. Followed by the EXC CCSXLATE output message.

`RL` = Retry later. May also include:
- `TOO MANY PROCESSES ACTIVE` = The number of processes that can be run by the ATA process has been reached. Use OP:JOBSTATUS to view current status.
- `FAILED TO CREATE PROCESS` = System resources are not available to start the appropriate process needed to execute this input message.

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- `SM INACCESSIBLE` = The target trunk member's SM is either inaccessible or in min-mode.
- `TOO MANY TRANSLATION TESTS RUNNING` = There can only be 4 trunk translation requests active at the same time. This limit has been reached.
- `AM OVERLOAD` = AM is experiencing an overload situation.
- `CNI TO PSU CONVERSION IN PROGRESS` = The system is not available due to the processing of CNI to PSU conversion.

5. REFERENCES

Output Message(s):

`EXC:CCSXLATE`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

RC/V View(s):
5.1 TRUNK GROUP

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EXC:CO

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Transfers lines from one switching system to another switching system (cutover and cutback).

NOTE: The CUTOVER page of the master control center (MCC) lists the pokes that can be used to perform cutovers and cutbacks.

2. FORMAT

```
EXC:CO:CMD=a;
```

3. EXPLANATION OF MESSAGE

`a` = Type of input message. Valid value(s):

- `ABORT` = Aborts a cutover. The abort must be performed while the cutover is still in progress.
- `CUT` = Activates inactive lines.
- `CUTBK` = Deactivates in-service lines.
- `ENCBK` = Enables the cutover program for cutback.
- `ENCUT` = Enables the cutover program for cutover.

4. SYSTEM RESPONSE

`IP` = In progress. The request is in progress.

`NG` = No good. The request is denied.

`OK` = Good. The request is completed.

5. REFERENCES

Output Message(s):

```
EXC:CO-SM
EXC:CO-STATUS
```

MCC Display Page(s):

(CUTOVER)

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EXC:DSTT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a direct signaling translation test (DSTT) be initiated. A DSTT is used to verify Common Channel Interoffice Signaling System 6 (CCIS6) translation data for CCIS6 messages sent over low speed links (4.8 kilobytes) in the common channel signaling (CCS) network.

DSTT is not applicable to CCIS6 messages embedded in Common Channel Signaling System 7 (CCS7) messages on high speed links (56 kilobytes).

2. FORMAT

```
EXC:DSTT,{INWATS=a|NCD=b|FUNC=c|BNS=d|CCRD=b|CAS=b};
```

3. EXPLANATION OF MESSAGE

`a` = Inward wide area telecommunications service (INWATS) number in the form 800NXX.

`b` = Network call denial (NCD), customer account services (CAS) or calling card (CCRD) number in the form NPANXX or RAO[0/1]XX. For CAS, this is the first six digits of the individual account number.

`c` = Function number to be tested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Billed number screening (BNS) in the form NPANXX.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `CNI NOT AVAILABLE` = The *5ESS®* switch can not send the test message. The common network interface (CNI) is not operational or is in overload. Check CNI status and wait 10 minutes before requesting another test.
- `INVALID INPUT DATA` = The data field is invalid.

`PF` = Printout follows. The request was received, the test is being executed and the EXC:DSTT output message follows.

`RL` = Retry later. May also include:
- `TEST IN PROGRESS` = Another CCS test is in progress. Repeat this test after a reply or time-out for the current test is received.

5. REFERENCES

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Input Message(s):

```
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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EXC:ECDAUD

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the immediate execution of the on-switch equipment configuration database (ECD) audit to audit the data in the root ECD database. Activation of the incore database should be performed prior to executing the audit.

2. FORMAT

```
EXC:ECDAUD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EXC:ECDAUD output message.

5. REFERENCES

Input Message(s):

```
STOP:ECDAUD
INH:ECDAUD
ALW:ECDAUD
SCHED:ECDAUD
OP:ECDAUD
```

Output Message(s):

```
EXC:ECDAUD
```

Other Manual(s):
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance Manual*

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EXC:ENVIR-PROC

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a task be executed as either a kernel or supervisor process.

WARNING: Incorrect use of this message can cause unpredictable system damage or degradation. It should not be used without expert technical assistance unless it is part of a prescribed procedure.

2. FORMAT

```
EXC:ENVIR,PROC,FN="a";
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file to be executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EXC:ENVIR-PROC output message.

5. REFERENCES

Input Message(s):

```
EXC:ENVIR-UPROC
OP:ST-PROC
```

Output Message(s):

```
EXC:ENVIR-PROC
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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EXC:ENVIR-UPROC

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a task be executed as a user process.

WARNING: Incorrect use of this message can cause unpredictable system damage or degradation. It should not be used without expert technical assistance unless it is part of a prescribed procedure.

2. FORMAT

```
EXC:ENVIR,UPROC,FN="a"[,ARGS=b][,BKG][,OPL=c];
```

3. EXPLANATION OF MESSAGE

`BKG` = Run the process in the background, freeing the terminal for further input messages. The default is foreground execution.

`a` = Full pathname of the file to be executed.

`b` = A single argument or a list of up to six arguments for the user process. Any argument containing lowercase letters or special characters must be enclosed in quotation marks.

`c` = Number of segments to be output; specified in decimal. The default is 10 segments; maximum is 999. Each segment has a maximum size of 1000 bytes or 20 lines.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EXC:ENVIR-UPROC output message.

5. REFERENCES

Input Message(s):

```
EXC:ENVIR-PROC
OP:ST-PROC
```

Output Message(s):

```
EXC:ENVIR-UPROC
```

Other Manual(s):

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235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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EXC:FACR

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that the feature activation counting and reconciliation (FACR) audit be started. If the request occurs between the hours of 6:00 p.m. and 6:00 a.m. the audit begins immediately. Requests made outside of the 6:00 p.m. to 6:00 a.m. time frame are scheduled for execution at 6:00 p.m.

2. FORMAT

```
[1]    EXC:FACR:OFC;
       _____________________________________________________________

[2]    EXC:FACR:UNOFC;
       _____________________________________________________________

[3]    EXC:FACR:DETAIL,NSEP=a;
       _____________________________________________________________

[4]    EXC:FACR:APPL=b,[UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

APPL	= Request for a special application audit. The output from the audit is for use with contracted services provided by Lucent Worldwide Services.
DETAIL	= Request for an detail report for a single network systems engineering practice (NSEP) value.
OFC	= Request for an official run of the FACR audit.
UCL	= Optional parameter for APPL, forces new execution regardless of current time of day or suspended job status. Run to completion with all processors, without automatic suspension due to time of day.
UNOFC	= Request for an unofficial run of the FACR audit. The output from the audit is restricted for use by the service provider only.
a	= NSEP value supplied by FACR coordinator.
b	= Name of special application audit. (5ECAP or 5ETOOL)

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the EXC:FACR output message.

5. REFERENCES

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Input Message(s):

```
OP:FACR
STP:FACR
```

Output Message(s):

```
EXC:FACR
```

Other Manual(s):
235-040-100 *OA&M Planning Guide*
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance*

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EXC:GKCCR

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests execution of a generated key collection and compression routine (GKCCR) in the specified processors. The routine will collect any unused generated key tuples and place them on the free lists for the appropriate relation. If the relation can reduce the amount of office-dependent data (ODD) memory allocated to it, the generated key tuples will be compressed into fewer data pages. Either specific processors can be specified or the GKCCR will be executed on every processor.

An EXC:GKCCR output message will report the status of the GKCCR request unless the GKCCR is aborted using the ABT:GKCCR input request, in which case an ABT:GKCCR output message occurs instead.

2. FORMAT

```
EXC:GKCCR[,SM=a[&&b]][,CMP=c[-{PRIM|MATE}]][,AM];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`MATE` = Mate CMP.

`PRIM` = Primary CMP.

`a` = Switching module (SM) number or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = Communications module processor (CMP) number.

4. SYSTEM RESPONSE

`NG` = No good. The input request is invalid. May also include:
- `NO VALID PROCESSOR SPECIFIED` = Specific processor(s) were specified in the input request line, but no requested processor was operational. If specific processors are to be requested, at least one requested processor must be operational.

`PF` = Printout follows. The request was accepted. EXC:GKCCR output messages for each specified processor follow. REPT:GKCCR output messages are produced if, during the execution of the GKCCR, data or system errors are discovered.

`RL` = Retry later. System resources could not be allocated to process the request.

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5. REFERENCES

Input Message(s):

```
ABT:GKCCR
ALW:GKCCR
INH:GKCCR
```

Output Message(s):

```
ABT:GKCCR
EXC:GKCCR
REPT:GKCCR
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-210 *Routine Operations and Maintenance*

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EXC:GRC

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) operation that is halted be restarted. This input message restarts the GRC process that was halted using the STP:GRC input message. The REPT:GRC input message can be used to determine which job was halted.

2. FORMAT

```
EXC:GRC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of the operation.

`NG` = No good. The request was denied. The GRC:ERROR output message will provide the reason for the failure.

5. REFERENCES

Input Message(s):

```
STP:GRC
REPT:GRC
SCHED:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-070-100 *Administration and Engineering Guidelines*

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EXC:GRCPASSWORD

Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

Requests that the global recent change (GRC) password for the given clerk identifier be updated or deleted.

2. FORMAT

```
EXC:GRCPASSWORD,CLERKID=a,{PASSWD=b|DELETE};
```

3. EXPLANATION OF MESSAGE

`DELETE` = Delete the password.

`a` = Clerk identifier assigned to GRC clerk.

`b` = New password for GRC clerk.

4. SYSTEM RESPONSE

`OK` = Good. The input message has been accepted indicating that the action will be taken.

`NG` = No good. The request was denied. The GRC:ERROR output message will provide the reason for the failure.

5. REFERENCES

Input Message(s):

```
REPT:GRC
```

Output Message(s):

```
GRC:ERROR
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-070-100 *Administration and Engineering Guidelines*

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EXC:LIT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that line insulation testing (LIT) be initiated, altered or verified.

Format 1 initiates a manually requested demand LIT (DLIT) (S) to test a single line or a group of lines.

Format 2 alters the parameters (Q) for the next automatic LIT (ALIT) session.

Format 3 verifies the parameters (V) for the next ALIT session.

2. FORMAT

```
[1]    EXC:LIT:OPT=S[,TYP=a][,RG=b],g[1];

[2]    EXC:LIT:OPT=Q[,TYP=a][,RG=b][,TMO=t][,TM=u-v];

[3]    EXC:LIT:OPT=V;
```

3. EXPLANATION OF MESSAGE

a = Type of line insulation test to perform. Valid value(s):
- F = Foreign potential (FEMF) test.
- G = General. Performs tip and ring-to-ground (TRG), short circuit and ring-to-ground (SRG), and FEMF test.
- S = SRG test.
- T = TRG test.

b = Code denotes threshold resistance that electrical leakage on the line will be compared to. The resistance for each range group depends on the ALIT circuit pack, (TN328, TN329, or TN330) to be used. Depending upon the circuit pack to be used, enter the letter (A - D) that corresponds to the threshold resistance desired for the specific circuit pack to be used (refer to Exhibit A).

CODE	TN328	TN329	TN330
A	80K ohms	80K ohms	320K ohms
B	160K ohms	320K ohms	1.25M ohms
C	640K ohms	1.25M ohms	2.5M ohms
D	2.5M ohms	5M ohms	5M ohms

c = Directory number of the line to be tested.

d = Member number of the multi-line hunt group (MLHG) or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be tested. For LTSB a member number of 1 will test the lead line and a member number of 2 will test the associate line. If no member number is specified, for 1-DN LTSB, the lead line will be tested. If no member number is specified, for

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2-DN LTSB, the line associated with the DN entered will be tested.

`e` = Multi-line hunt group number of the line to be tested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Multi-line hunt member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Board number (LU1, LU2, or LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Maximum duration for the next automatic LIT. Valid value(s):

`0`	= Suppresses the next ALIT.
`1-8`	= Number of hours that ALIT is to be run (or until all testable lines have been tested).

`u` = Hours of 24-hour clock time when ALIT will start.

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v = Minutes of 24-hour clock time when ALIT will start.

w = Integrated services line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = Access interface unit equipment number (AIUEN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Access interface unit (AIU) pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Digital network unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the

g[1] = Valid value(s):

AIUEN=g-a[1]-b[1]-c[1] DN=c[-d] ILEN=g-s-n-o INEN=g-d[1]-e[1]-f[1] LCEN=g-p-z-r LCKEN=g-w-q-x-y	LEN=g-h-i-j-k-l MLHG=e-f SLEN=g-m-n-o

4. SYSTEM RESPONSE

NG = No good. The message was not recognized. Valid value(s):
- DATA OUT OF RANGE = The message was not recognized because the parameter value specified in ALIT request is invalid.
- INVALID LINE = The message was not recognized because the line identified in DLIT request is invalid.
- INVALID OPTION SET = The message was not recognized because the option set specified in the request is invalid.

PF = Printout follows. The request has been accepted and is in progress. Followed by the

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EXC:LIT output message.

RL = Retry later. The request has been denied. Valid value(s):

- COMMUNICATION FAILURE = The DLIT request has been denied because the request could not be delivered in the system.
- DEMAND LIT ACTIVE = The DLIT request has been denied because another DLIT session is currently executing.
- PROCESS CREATION FAILURE = The DLIT request has been denied because a controlling process could not be created.
- RESOURCE SHORTAGE = The request has been denied because of a resource shortage.
- SYSTEM PROBLEM = The request has been denied because of a system problem such as the administrative module (AM) being in minimum (MIN) mode.

5. REFERENCES

Input Message(s):

```
DGN:ALIT
DGN:MA
EX:ALIT
EX:MA
OP:LIT
STP:LIT
```

Output Message(s):

```
DGN:ALIT
DGN:MA
EX:ALIT
EX:MA
EXC:LIT
EXC:LIT-ABT
EXC:LIT-COMPL
EXC:LIT-NOT
EXC:LIT-SINGLE
EXC:LIT-SKIPPED
EXC:LIT-STARTED
EXC:LIT-STOPPED
EXC:LIT-VERIFY
OP:LIT
STP:LIT-COMPL
```

Input Appendix(es):

```
APP:RANGES
```

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EXC:MRVT-PC

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the message transfer part (MTP) route verification test (MRVT) be initiated. The requested test is run, and the report is written to the MTCE message class and/or the standard output.

2. FORMAT

```
EXC:MRVT:PC=a[,STPS=b][,TRACE];
```

3. EXPLANATION OF MESSAGE

`TRACE` = Include traces of STPs crossed during the test in the output if the test was a success or partial success. If a failure occurs, and this keyword is present the "trace" will not appear, but some error messages do contain a listing of point codes that is similar to the "trace".

`a` = The point code of the terminating node for the test. Must be entered in one of the following formats:

`dddcccceee` = *ANSI*® standard.
`dddffceee` = AT&T standard.

NOTE: Non-local network point codes always use *ANSI*® standard format.

`b` = Value of the parameter N, which is the maximum number of signaling transfer points (STPS) the MRVT is allowed to cross (default 2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

`c` = The cluster identifier.

`d` = The network identifier.

`e` = The member identifier.

`f` = The region identifier.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EXC:MRVT-PC-STPS output message.

5. REFERENCES

Input Message(s):

`CHG:MRVT`

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Output Message(s):

```
CHG:MRVT
EXC:MRVT-PC-STPS
REPT:MRVR
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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EXC:ODDRCVY

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests reapplication of customer-originated and/or regular recent changes (RCs) from the disk log. This message is used when the backout of recent changes has been requested manually or when an automatic recovery of the recent changes is aborted.

When an administrative module (AM), switching module (SM), or communication module processor (CMP) is in a roll forward and an RC transaction problem exists, the roll forward aborts. To restart the roll forward, reenter this message. With a possible roll forward occurring on either side 0 or 1 of the message switch, this input message requires the use of a message switch side indicator to determine the CMP side to roll forward.

WARNING: Using the SKIPLOG option with this message may result in database inconsistencies (splits) to the processor specified. If the processor is in RC BACKOUT and manual intervention is required, only the ALL option should be used to clear the RC BACKOUT status. Use of the SKIPLOG option will skip applying logged recent changes which will cause splits. Only use SKIPLOG if you are familiar with its operation and understand its consequences. Otherwise, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

2. FORMAT

```
EXC:ODDRCVY={CORC|ALL|SKIPLOG}{[,SM=a[&&b]][,CMP=c-d][,AM]}[,SKIPRC];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = Reapply both recent changes and customer-originated recent changes.

`CORC` = Reapply only customer-originated recent changes.

`SKIPLOG` = Does not reapply any changes. Convert RC BACKOUT lamp to off.
Caution: This may cause database splits.

`SKIPRC` = Skip the current RC which has the problem and restart the RC roll forward on the next RC tuple. Default is to stop the current RC with the problem.

`a` = SM number or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

`c` = Message switch side of the CM with the desired CMP. Refer to the APP:RANGES appendix

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in the Appendixes section of the Input Messages manual.

`d` = CMP number or peripheral control number.

4. SYSTEM RESPONSE

`NG` = No good. The input request is invalid.

`PF` = Printout follows. The request was accepted. Followed by the EXC:ODDRCVY output message.

`RL` = Retry later. The input request is blocked by a previous request that is not completed or because the system is not yet stabilized from initialization.

5. REFERENCES

Input Message(s):

```
EXC:RCDECODE
```

Output Message(s):

```
EXC:ODDRCVY
REPT:RCDECODE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-250 *System Recovery*
235-105-210 *Routine Operations and Maintenance*

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EXC:OFLBOOT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Initiates the off-line boot procedure. This may be used to verify the integrity of boot files and data, or as the prelude for the side switch.

There are some restrictions the user must follow for this input message to execute successfully:

- The primary or secondary disk must be selected manually.
- Input/output processors (IOPs) 0 and 1 cannot both be selected for the off-line side.
- There should be no recent change/verify (RCV) activities running.
- There should be no diagnostic activities running.
- The maintenance teletypewriter (MTTY) and receive-only printer (ROP) port selector switches must be in the AUTO position and the portswitch controller must be powered on.

WARNING: Incorrect use of this input message may interrupt operations of the system, or degrade its performance or availability.

Off-line boot requires a logical split of the system during which one control unit (CU) and all its subunits will not be available. Off-line boot should never be used if CCS6 links are equipped on the CNI ring.

Note that the boot signal generated in the offline side will result in the yellow critical alarm indicator being lit. This is the expected behavior of the indicator in all bootstraps (including the offline boot). The indicator will be cleared automatically within 30 seconds.

2. FORMAT

```
EXC:OFLBOOT:[,TTY=a][,APARM=b][,INITLVL=c][,IOPx[=MAX]][,HDWCHK][,SFTCHK]
[,ERRINT][,BROOT][,MINCONFIG][,UCL=d][,MONITOR][,RETROFIT][,OOS][,TRACE];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`BROOT` = Back up partitions will be used for the off-line side. The default is the primary partitions.
Caution: If a side switch is done and then the OFLBOOT procedure stopped, the system will be running on the backup partitions. A boot will be needed afterward to return to the primary (ROOT) partition.

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ERRINT = Error interrupts will be inhibited for the off-line side. The default is allowed.

HDWCHK = Hardware checks will be inhibited for the off-line side. The default is allowed.

IOP*x* = The IOP will be removed from service in the on-line side and remain on the original off-line side until OFLBOOT is stopped. Side switching does not affect this assignment. The range can be 0 through 7.

If MAX is specified, all devices under this IOP will be equipped and made available to the off-line side except the ROP, MTTY, and Switching Control Center (SCC). The ROP, MTTY, and SCC will be unequipped on the off-line side.

Caution: Even with the SCC unequipped, it may perform a link switch. In this case, all emergency action interface (EAI) capabilities are function.

If MAX is not specified, only peripheral controllers under this IOP will be equipped. Peripheral units under this IOP will not be equipped.

If the default option and the TTY=a option is selected, only TTY=a will be equipped under this IOP in addition to the peripheral controllers.

If OFLBOOT is a prelude to the software release transition procedure, '*x*' has to be either 0 or 1.

The default is IOP*x* without MAX.

MINCONFIG = Minimum configuration database will be used for the off-line side. Any subsequent side switch will not be allowed. The default is the full configuration database.

MONITOR = All off-line process recovery messages (PRMs) will be directed to the on-line ROP.

The default case will have only off-line PRMs up to step 4 (KBOOT) directed to the on-line ROP.

OOS = If specified, units selected for the off-line side may be initially OOS. The default requires those units be active (ACT) or standby (STBY).

RETROFIT = Recovery strategy will be modified to accommodate the software release transition. The default is normal recovery strategy. The RETROFIT option should only be used during a manual software release transition scenario. It has a strong impact during the side switch. It allows the side switch to occur even if the switch precheck fails. This can result in a level 3 boot depending on the nature of switch precheck failure. Misuse of this option can cause call processing downtime.

SFTCHK = Software checks will be inhibited for the off-line side. The default is allowed.

TRACE = This option is used by authorized technical personnel only. It is for trouble shooting purposes and generates a significant amount of undocumented trace messages. The default is no trace message generated.

a = The teletypewriter (TTY) option is used as a pseudo ROP on the off-line side. All of the off-line side output directed to the ROP is sent to this TTY. The valid range is 0 to 254. If the

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selected TTY is a *UNIX*® system TTY, the output sent to it may be unformatted until someone logs in. The default is no TTY; the off-line ROP output will not be sent to any output device.

Caution: By selecting the TTY option, the IOP associated with it is implicitly assigned to the off-line side.

`b` = Application parameter for the off-line side. The range is a single alphanumeric character. This is equivalent to the function of poke 42 on the EAI page during normal boot. The default is no APARM option set for the off-line side.

`c` = *UNIX*® RTR bootstrap initialization level for the off-line side. Valid value(s):

- `2` = The initial CU system configuration must be ACT or STBY. The out-of-service (OOS) option will not override this requirement.
- `3` = Boot and load new equipment configuration database (ECD).
- `4` = Boot and load new ECD and clear the protected application segment (PAS) (default).

Caution: These levels apply to *UNIX*® RTR initialization. Different applications may or may not support all of them.

`d` = By selecting the UCL option, some application prechecks will be overridden. The default enforces all prechecks. Application initiated aborts will be ignored. Because the UCL option inhibits system recover actions, it should be used only in a software release transition procedure under technical guidance. Misuse can cause call processing downtime.

NOTE: Using the UCL option requires a password ('`d`'); to obtain it, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual. The value of '`d`' will change every time the UCL option is entered. Using the UCL option always requires contacting technical assistance.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good.

`RL` = Retry later. Some activity is running that is incompatible with EXC:OFLBOOT (for example, rcvecd).

5. REFERENCES

Input Message(s):

```
STOP:OFLBOOT
SW:OFLBOOT
```

Output Message(s):

```
EXC:OFLBOOT
REPT:OFLBOOT
```

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```
STOP:OFLBOOT
SW:OFLBOOT
```

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EXC:PING-A

Software Release: 5E15 - 5E16(1)
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

The Packet Internet Groper (PING) is used to verify a Transmission Control Protocol/Internet Protocol (TCP/IP) connection between the Source Internet Protocol (SRCIP) address and the Internet Protocol Destination (IPDEST) address. PING sends a request message with data to the IPDEST address and expects a reply from IPDEST, returning the data sent in the request.

Note: Only one EXC:PING input message is allowed per SM or CHNG until the EXC:PING processing is complete. The system response will indicate when the EXC:PING is still in progress. The response message is `RL - PING IN PROGRESS`. To enter a valid EXC:PING, repeat the input message after a EXC:PING output.

2. FORMAT

```
[1]    EXC:PING,SM=a[,SRCIP=e-f-g-h][,BYTES=i]...
       ...[,TIMEOUT=j][,REPEAT=k],IPDEST=l-m-n-o;

[2]    EXC:PING,CHNG=a-b-c-d[,SRCIP=e-f-g-h][,BYTES=i]...
       ...[,TIMEOUT=j][,REPEAT=k],IPDEST=l-m-n-o;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number.

`b` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: SRCIP is the address the PING is sent from. Each entry (e-h) is part of the SRCIP address. The default is the SRCIP of the SM or CHNG.

`e` = SRCIP. The range is 0-255.

`f` = SRCIP. The range is 0-255.

`g` = SRCIP. The range is 0-255.

`h` = SRCIP. The range is 0-255.

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i = BYTES to send in PING Message. This is the number of bytes that will be sent to the IPDEST and the same number of bytes received from the IPDEST. The range is 1-126. The default is 126.

j = TIMEOUT in seconds waiting from a reply from IPDEST. The range is 1-10. The default is 5.

k = REPEAT the number of times to send the message to IPDEST. The range is 1-5. The default is 3.

Note: IPEST is the address the PING is sent to. Each entry (l-o) is part of the IPDEST address.

l = IPDEST. The range is 0-255.

m = IPDEST. The range is 0-255.

n = IPDEST. The range is 0-255.

o = IPDEST. The range is 0-255.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist. May also include:
- NOT VALID FOR PH = The EXC:PING is not valid for this PH. The feature is not equipped on this PH.
- NOT VALID FOR SM = The EXC:PING is not valid for this SM. The feature is not equipped for this SM.
- NOT VALID PROCESSOR = A invalid processor type was requested, other than SM or PH.

PF = Printout follows. The message was accepted and a printout will follow.

RL = Retry later. May also include:
- PING IN PROGRESS = Only one ping input message is allowed to execute on the same SM or PH.
- CREATE PING TP FAILED = Failed to create the PING Terminal Process.
- MESSAGE TO PING TP FAILED = Message sent to the PING Terminal Process Failed.
- TIMEOUT WAITING TO PROCESS PINGDATA = A timeout occurred waiting for the PING DATA message in the PING Terminal Process.
- BAD DEFAULT = An incorrect message was received in the PING Terminal Process.
- SOCKET NOT CREATED = A socket could not be created.
- BIND FAILED = A BIND to the socket could not be completed.
- SOCKOPT FAILED(BLKING) = When setting BLOCKING for this application, a failure occurred.
- SOCKOPT FAILED(TO) = When setting the TIMEOUT for this application, a failure occurred.

5. REFERENCES

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Input Message(s):

NA

Output Message(s):

EXC:PING

Input Appendix(es):

APP:RANGES

Other Manual(s):

System Maintenance Requirements and Tools

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EXC:PING-B

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

The packet internet groper (PING) is used to verify a transmission control protocol/internet protocol (TCP/IP) connection between the source internet protocol (SRCIP) address and the internet protocol destination (IPDEST) address. PING sends a request message with data to the IPDEST address and expects a reply from IPDEST, returning the data sent in the request.

Only one EXC:PING input message is allowed per SM, CHNG, or OFI until the EXC:PING processing is complete. The system response will indicate when the EXC:PING is still in progress. The response message is `RL - PING IN PROGRESS`. To enter a valid EXC:PING, repeat the input message after a EXC:PING output.

2. FORMAT

```
[1]    EXC:PING,SM=a[,SRCIP=e-e-e-e][,BYTES=i]. . .
       . . .[,TIMEOUT=j][,REPEAT=k],IPDEST=l-l-l-l;
       _____________________________________________________

[2]    EXC:PING,CHNG=a-b-c-d[,SRCIP=e-e-e-e][,BYTES=i]. . .
       . . .[,TIMEOUT=j][,REPEAT=k],IPDEST=l-l-l-l;
       _____________________________________________________

[3]    EXC:PING,OFI=a-m-n-o[,SRCIP=e-e-e-e|BROADCAST][,BYTES=i]. . .
       . . .[,TIMEOUT=j][,REPEAT=k],IPDEST=l-l-l-l;
       _____________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: SRCIP is the address the PING is sent from. Each entry (variable `` `e` ``) is part of the SRCIP address. The default is the SRCIP of the SM or CHNG.

`e` = SRCIP number. The range is 0-255.

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i = Bytes to send in the PING message. This is the number of bytes that will be sent to the IPDEST and the same number of bytes received from the IPDEST. The range is 1-255. The default is 56.

j = Timeout in seconds waiting from a reply from IPDEST. The range is 1-10. The default is 5.

k = Repeat the number of times to send the message to IPDEST. The range is 1-5. The default is 3.

IPEST is the address the PING is sent to. Each entry (variable 'l') is part of the IPDEST address. If the BROADCAST option is used, it is only valid with the OFI identifier. BROADCAST can be used to obtain the IP address of the router associated with the OFI when that IP address is unknown.

l = IPDEST number. The range is 0-255.

m = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist. May also include:
- NOT VALID FOR PH = The EXC:PING is not valid for this PH. The feature is not equipped on this PH.
- NOT VALID FOR OFI = The EXC:PING is not valid for this OFI. The feature is not equipped for this OFI.
- NOT VALID FOR NON-SELECTED OFI = The OFI side specified is the non-selected side. The selected side needs to be chosen.
- NOT VALID FOR SM = The EXC:PING is not valid for this SM. The feature is not equipped for this SM.
- NOT VALID PROCESSOR = A invalid processor type was requested, other than SM or PH.
- NOT VALID OPTION = The BROADCAST option can only be used with the OFI identifier.
- OFI IS OOS = The specified OFI is out-of-service.
- OFI NOT AVAILABLE = The OFI chosen is not available.
- UNIT DOES NOT EXIST = An invalid OFI was specified.

PF = Printout follows. The message was accepted and a printout will follow.

RL = Retry later. May also include:
- BAD DEFAULT = An incorrect message was received in the PING terminal process.
- BIND FAILED = A BIND to the socket could not be completed.
- CREATE PING TP FAILED = Failed to create the PING terminal process.
- MESSAGE TO PING TP FAILED = Message sent to the PING terminal process failed.

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- PING IN PROGRESS = Only one ping input message is allowed to execute on the same SM or PH.
- SOCKET NOT CREATED = A socket could not be created.
- SOCKOPT FAILED(BLKING) = When setting BLOCKING for this application, a failure occurred.
- SOCKOPT FAILED(TO) = When setting the TIMEOUT for this application, a failure occurred.
- TIMEOUT WAITING TO PROCESS PINGDATA = A timeout occurred waiting for the PING DATA message in the PING terminal process.

5. REFERENCES

Output Message(s):

EXC:PING

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:PM-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.

The monitoring function records frames or packets or messages transmitted or received for the requested recording protocol level. The frames or packets or messages recorded are those surrounding a particular specified event, either a particular frame or packet or message or a particular protocol error record (PER). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER. Depending on the protocol, the protocol monitoring session will be recorded on either an SM or a PH. The following table indicates which processor records the protocol exchange. The number of sessions which can concurrently record on a given processor are:

- 8 per office.
- 2 per SM and 4 per SM 2000.
- 2 per PH and PH2.
- 3 per PH3 and PH4.
- 2 per PHV1, PHV2, and PHV3.
- 1 per PH4 connected to frame relay bearer channels (FRBCs).

It is very important for the user to understand that when protocol monitoring is turned on to monitor a frame relay bearer channel connected to a PH4, it will result in real time performance degradation of the PH4. Therefore, the user is strongly urged to limit the duration of protocol monitoring session on a frame relay Bearer channel to the absolute bare minimum. .TS H box; cw(1i) | cw(3i) c | c. T{ PROTOCOL T};T{ RECORDING PROCESSOR T} _ .TH T{ LAPD T};T{ PH T} _ T{ LAPF T};T{ PH T} _ T{ LAPB T};T{ PH T} _ T{ X25 T};T{ PH (B-channel) SM (D-channel) T} _ T{ X75P T};T{ PH T} _ T{ Q931 T};T{ SM T} _ T{ X75 T};T{ PH T} _ T{ TMC T};T{ SM T} _ T{ V120 T};T{ SM T} _ T{ CESHL2 T};T{ PHV T} _ T{ CESHL3 T};T{ PHV T} _ T{ RLP T};T{ PHV T} _ T{ ISLP T};T{ PHV T} .TE

Up to eighty frames or packets or messages can be saved; the total number saved is dependent on the length of each frame or packet or message.

Format 1 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored channel.

Format 2 is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and customer premises equipment (CPE).

2. FORMAT

```
[1]    EXC:PM,a[,CH=u][,PROT=v][,TRIGLVL=w],[,PLANE=p1][,MSGGRP=o1]. . .
       . . .PER[="x"][,OFF=a1][,DUR=b1][,PRINT][,XLATE];

[2]    EXC:PM,a[,CH=u][,PROT=v][,TRIGLVL=w],[,PLANE=p1][,MSGGRP=o1]. . .
       . . .TRIGVAL=y[,DIR=z][,OFF=a1][,DUR=b1][,PRINT][,XLATE];
```

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3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

PER = Terminate the recording session if a valid PER occurs on the channel for the specified trigger protocol. If a protocol error code (PEC) is not specified, then any valid PER for the trigger protocol will terminate the session.

PRINT = Print the output on the ROP.

If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

XLATE = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols.

The base translation capability is controlled by "special feature" #32. Enhancements to the base translation capability are built on top of the base translation capability. Currently, the translator has one translation enhancement. The "special feature" #151 enhancement allows translation of the national ISDN (NI) protocol changes. The base translation capability "special feature" #32 supports translation for LAPB, LAPD, LAPF, Q.931 (custom only), X.25, X.75, and RLP protocols. The NI translation capability "special feature" #151 adds translation for Q.931 (National ISDN) protocol, and also to a lesser extent for the X.25 and X.75 (National ISDN changes) protocols.

If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted `atf.xxx` where `xxx` corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

a = Line identification. Valid value(s):

AIUEN=c-l^1-m^1-n^1
DEN=c-m-n-o
DN=b
DNUSEOC=c-f^1-r-t
DNUSTMC=c-f^1-r-t
DSLGM=c-q-d-e
IDCUEOC=c-q-r-t
IDCUTMC=c-q-r-t
ILEN=c-q-r-s
INEN=c-f^1-r-s
LCEN=c-j-k-l
LCKEN=c-c^1-k^1-d^1-e^1
MLHG=h-i
NEN=c-f^1-g^1-u^1-h^1-i^1-v^1-j^1
PKTDN=b

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```
PLTEN=c-w[1]-x[1]-y[1]-z[1]
PORT=c-p
TKGMN=f-g
PSUEN=c-q[1]-r[1]-t[1]-e
VBRI=c-a[2]
VTRK=c-b[2]-c[2]
```

b = The directory number.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = PH channel member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Logical port number.

q = Integrated digital carrier unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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r = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = RT Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Channel to be monitored (applies only to basic rate interfaces). The default channel will be based on the method of line identification and, optionally, the protocol level to be monitored. The channel option will be required when invoked with the DN or multi-line hunt group line identifiers, and these identifiers reflect multiple packet services. In other words, if a channel cannot be determined (such as, a user has a circuit service on the D-channel, a packet service on the D-channel, and a packet service on the B-channel and all services use the same DN), the request will be denied. It will, however, be accepted if the input message included the appropriate channel option.

D	= D-channel.
B1	= B1-channel. This option can only be used with permanent packet B-channel (PPB).
B2	= B2-channel. This option can only be used with PPB.
ODPPRI	= Primary on-demand packet B-channel (valid for single and multiple on-demand B-channel packet switching). This option can only be used with on-demand B-channel services. With on-demand packet services, either B-channel is available for use by the on-demand packet service. There is no direct relationship between the on-demand packet service and a B-channel. The first B-channel used by the on-demand packet service is considered the primary channel.
ODPSEC	= Secondary on-demand packet B-channel (valid for multiple on-demand B-channel packet switching only). This option can only be used with on-demand B-channel services. The second B-channel used by the on-demand packet service is considered the secondary channel.

v = Protocol level (PROT). Valid value(s):

CESHL2	= Monitor the CESHL2 protocol.
CESHL3	= Monitor the CESHL3 protocol.
ISLP	= Monitor the ISLP protocol.
LAPD	= Monitor the LAPD protocol (default, if determined/requested channel is D).
LAPB	= Monitor the LAPB protocol (default, if determined/requested channel is other than D).
LAPF	= Monitor the LAPF protocol
Q931	= Monitor the Q.931 protocol.
RLP	= Monitors the RLP protocol.
TMC	= Monitor the TMC protocol.
V120	= Monitor the V.120 protocol.
X25	= Monitor the X.25 protocol.
X75	= Monitor the X.75 protocol.
X75P	= Monitor the X.75' protocol.

w = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

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PROTOCOL	TRIGLVL
LAPD	LEVEL2
LAPF	LEVEL2
LAPB	LEVEL2
X25	LEVEL3
X75P	LEVEL3
Q931	LEVEL3
X75	LEVEL3
TMC	LEVEL3
V120	LEVEL3
IDLC	LEVEL7
ATS	LEVEL7
CESHL2	LEVEL2
CESHL3	LEVEL3
RLP	LEVEL7
ISLP	LEVEL2

Note: The trigger level/protocol must be terminated on the same processor as the recording protocol.

Note: For CESHL2, CESHL3, ISLP, and RLP protocols there is only one triggering level which is the above indicated default value.

x = Specific PEC to trigger session termination. Refer to the 235-600-755 for details.

This field must be enclosed in double quotation marks.

y = TRIGVAL that terminates the recording session. Valid value(s):

Protocols:	Value(s):
LAPD	DISC DM = LAPD disconnected mode frame. FRMR = LAPD frame reject frame. I = LAPD information frame. REJ = LAPD reject frame. RNR = LAPD receive not ready frame. RR = LAPD receive ready frame. SABM = LAPD set asynchronous balanced mode frame. SABME = LAPD set asynchronous balanced mode extended frame. UA = LAPD unnumbered acknowledgment frame. UI = LAPD unnumbered information frame. XID = LAPD identification frame.
LAPF	DISC = LAPF disconnect frame. DM ear LAPF disconnected mode frame. FRMR = LAPF frame reject frame. I = LAPF information frame. REJ = LAPF reject frame. RNR = LAPF receive not ready frame. RR = LAPF receive ready frame. SABM = LAPF set asynchronous balanced mode frame. SABME = LAPF set asynchronous balanced mode extended frame.

	UA = LAPF unnumbered acknowledgment frame. UI = LAPF unnumbered information frame. XID = LAPF identification frame.
LAPB	DISC = LAPB disconnect frame. DM = LAPB disconnected mode frame. FRMR = LAPB frame reject frame. I = LAPB information frame. REJ = LAPB reject frame. RNR = LAPB receive not ready frame. RR = LAPB receive ready frame. SABM = LAPB set asynchronous balanced mode frame. SABME = LAPB set asynchronous balanced mode extended frame. UA = LAPB unnumbered acknowledgment frame.
Q931	ALERTING = Q.931 alerting message. ASSOCIATED = Q.931 associate message. ASSOCIATEDACK = Q.931 associate acknowledgment message. CALLPROCEED = Q.931 call proceeding message. CONFERENCE = Q.931 conference message. CONFERENCEACK = Q.931 conference acknowledgment message. CONFERENCEREJ = Q.931 conference reject message. CONNECT = Q.931 connect message. CONNECTACK = Q.931 connect acknowledgment message. DISCONNECT = Q.931 disconnect message. DROP = Q.931 drop message. DROPACK = Q.931 drop acknowledgment message. DROPREJECT = Q.931 drop reject message. FACILITY = Q.931 facility message. HOLD = Q.931 hold message. HOLDACK = Q.931 hold acknowledgment message. HOLDREJECT = Q.931 hold reject message. INFORMATION = Q.931 information message. KEYHOLD = Q.931 key hold message. KEYRELEASE = Q.931 key release message. KEYSETUP = Q.931 key setup message. KEYSETUPACK = Q.931 key setup acknowledge message. MGMTINFO = Q.931 management information message. NOTIFY = Q.931 notify message. PROGRESS = Q.931 progress message. RECONNECT = Q.931 reconnect message. RECONNECTACK = Q.931 reconnect acknowledgment message. RECONNECTREJ = Q.931 reconnect reject message. REDIRECT = Q.931 redirect message. REGISTER = Q.931 register message. RELEASE = Q.931 release message. RELEASECOMP = Q.931 release complete message. RESTART = Q.931 restart message. RESTARTACK = Q.931 restart acknowledgment message. RETRIEVE = Q.931 retrieve message. RETRIEVEACK = Q.931 retrieve acknowledge message.

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	RETRIEVEREJ = Q.931 retrieve reject message. SEGMENT = Q.931 segment message. SERVICE = Q.931 service message. SERVICEACK = Q.931 service acknowledgment message. SETUP = Q.931 setup message. SETUPACK = Q.931 setup acknowledgment message. STATUS = Q.931 status message. STATUSINQ = Q.931 status inquiry message. TRANSFER = Q.931 transfer message. TRANSFERACK = Q.931 transfer acknowledgment message. TRANSFERREJ = Q.931 transfer reject message.
X25	CLEAR = X.25 clear request packet. CLEARCNF = X.25 clear confirmation packet. CONN = X.25 call accepted packet. DATA = X.25 data packet. DIAG = X.25 diagnostic packet. INCCALL = X.25 incoming call request packet. INTR = X.25 interrupt packet. INTRCNF = X.25 interrupt confirmation packet. RESET = X.25 reset request packet. RESETCNF = X.25 reset confirmation packet. RESTART = X.25 restart request packet. RESTARTCNF = X.25 restart confirmation packet. RNR = X.25 receiver not ready packet. RR = X.25 receiver ready packet.
TMC	CONNECT = TMC connect message. CONNECTACK = TMC connect acknowledgment message. DISCONNECT = TMC disconnect message. INFORMATION = TMC information message. RELEASE = TMC release message. RELEASECOMP = TMC release complete message. SETUP = TMC setup message. STATUS = TMC status message. STATUSENQ = TMC status inquiry message. RESUME = Resume. RESUME-ACK = Resume acknowledge. SUSPEND = Suspend. SUSPEND-ACK = Suspend acknowledge.
V120	ABORT = V.120 abort segment. BEGIN = V.120 begin segment. MIDDLE = V.120 middle segment. FINAL = V.120 final segment. SINGLE = V.120 single segment.
X75 or X75P	CLEAR = X.75' or X75 clear request packet. CLEARCNF = X.75' or X75 clear confirmation packet. CONN = X.75' or X75 call accepted packet. DATA = X.75' or X75 data packet.

	DIAG = X.75' or X75 diagnostic packet. INCCALL = X.75' or X75 incoming call request packet. INTR = X.75' or X75 interrupt packet. INTRCNF = X.75' or X75 interrupt confirmation packet. RESET = X.75' or X75 reset request packet. RESETCNF = X.75' or X75 reset confirmation packet. RESTART = X.75' or X75 restart request packet. RESTARTCNF = X.75' or X75 restart confirmation packet. RNR = X.75' or X75 receiver not ready packet. RR = X.75' or X75 receiver ready packet.
CESHL2	DISC = CESHL2 disconnect frame. DM = CESHL2 disconnect mode frame. FRMR = CESHL2 S type reject frame. I = CESHL2 information frame. RR = CESHL2 receive ready frame. RNR = CESHL2 receive not ready frame. REJ = CESHL2 U type reject frame. SABME = CESHL2 set asynchronous balanced mode extended frame. UA = CESHL2 unnumbered acknowledgment frame. UI = CESHL2 unnumbered information frame. XID = CESHL2 identification frame.
CESHL3	BURST DTMF = CESHL3 general burst dual tone multi-frequency (DTMF) message. START DTMF = CESHL3 start continuous DTMF message. STOP DTMF = CESHL3 stop continuous DTMF message. CLK ADJUST = CESHL3 clock adjust message. CONNECT = CESHL3 connect message. JOIN = CESHL3 join message. REMOVE = CESHL3 remove message. ACK = CESHL3 acknowledgment message. NACK = CESHL3 negative acknowledgment message. DROP = CESHL3 drop message. REV VOICE = CESHL3 reverse voice traffic message. REV MIXED = CESHL3 reverse mixed traffic message. FWD VOICE = CESHL3 forward voice traffic message. FWD VIXED = CESHL3 forward mixed traffic message. PWRCNTL = CESHL3 Power Control Config. ANCSETUP = CESHL3 anchor setup message. FSCHREQ = CESHL3 forward supplementary channel request. FSCHRESP = CESHL3 forward supplementary channel response. FSCHREL = CESHL3 forward supplementary channel release. RSCHREL = CESHL3 reverse supplementary channel release. FSCHABT = CESHL3 forward supplementary channel abort. RSCHREQ = CESHL3 reverse supplementary channel request. RSCHRSP = CESHL3 reverse supplementary channel response. RSCHASN = CESHL3 reverse supplemental channel assign. ANCREL = CESHL3 anchor release. RSCHABT = CESHL3 reverse supplemental channel abort.
RLP	INV = RLP invalid message.

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	UNSEG = RLP unsegmented data message. FIRST SEG = RLP first segmented data message. SECOND SEG = RLP second segmented data message. LAST SEG = RLP last segmented data message. IDLE = RLP idle message. ISFF = RLP intersegment fill message. NAK = RLP negative acknowledgment fill message. SYNC = RLP synchronous message. ACK = RLP acknowledgment message. SYNC ACK = RLP synchronous acknowledgment message. NULL = RLP3 null message. SACK = RLP3 synchronous acknowledgment message. SEG = RLP3 segmented data message. FILL = RLP3 fill frame message.
ISLP	UI = ISLP unnumbered information frame.

a[1] = Offset (OFF) of the number of frames to be recorded after detection of the trigger event (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Duration (DUR) of the recording session in seconds (default is 3600). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

`m`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Allows the user to optionally specify the type of messages to be recorded when monitoring LAP D protocol on a frame relay bearer channel. User can request specifically to monitor either control messages or user data. However, if user data recording is requested, only a summary of the user data frame will be recorded, due to the sheer volume of the user data. The summary of the user data frame will contain the address information and the length of the actual user data frame transmitted or received. Valid value(s):

- `CTRL` = Record only control messages. CTRL is the default value.
- `DATA` = Record only a summary of the transmitted or received user data frame.
- `ALL` = Record both control messages and a summary of the transmitted or received user data frame.

`o`[1] = Allows the user to optionally specify the type of messages or frames to be recorded when protocol monitoring is on a speech handler or an *Autoplex®* data trunk. This option can be used with CESHL2 or CESHL3 or RLP protocol. Valid value(s):

- `CTRL` = Requesting recording of control frames (S and I) for CESHL2 protocol. Default value for CESHL2 protocol at level 2 recording.
- `TRAF` = Requesting recording of UI traffic messages for CESHL3 protocol.
- `IP` = Requesting recording of inter-processor messages for CESHL3 protocol. Default value for CESHL3 protocol at level 3 recording.
- `RLP` = Requesting recording of non-idle RLP frames for RLP protocol. Default value for RLP protocol at level 7 recording.
- `ALL` = Requesting recording of all messages for CESHL2 or CESHL3 or RLP protocol. This will result in recording S, I, XID, and, UI frames for CESHL2 protocol, or UI plus IP frames for CESHL3 protocol, or RLP plus idle frames for RLP protocol.

`q`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix

in the Appendixes section of the Input Messages manual.

`v`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Channel number (CHAN.) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or was not acceptable.

`PF` = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PM output message.

`RL` = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

```
OP:PM
STP:PM
```

Output Message(s):

```
EXC:PM
OP:PM
STP:PM
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-190-104 *ISDN Feature Descriptions*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*
235-600-755 *Protocol Error Record Descriptions*
235-900-341 *National ISDN Basic Rate Interface Specification*

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EXC:PM-B

Software Release: 5E16(1) - 5E17(1)
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.

The monitoring function records frames or packets or messages transmitted or received for the requested recording protocol level. The frames or packets or messages recorded are those surrounding a particular specified event, either a particular frame or packet or message or a particular protocol error record (PER). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

Depending on the protocol, the protocol monitoring session will be recorded on either an SM or a PH. The following table indicates which processor records the protocol exchange. The number of sessions which can concurrently record on a given processor are:

— 8 per office.

— 2 per SM and 4 per SM 2000.

— 2 per PH and PH2.

— 3 per PH3 and PH4.

— 2 per PHV1, PHV2, and PHV3.

— 1 per PH4 connected to frame relay bearer channels (FRBCs).

— 3 per PHE2.

It is very important for the user to understand that when protocol monitoring is turned on to monitor a frame relay bearer channel connected to a PH4, it will result in real time performance degradation of the PH4. Therefore, the user is strongly urged to limit the duration of protocol monitoring session on a frame relay Bearer channel to the absolute bare minimum.

PROTOCOL	RECORDING PROCESSOR
LAPD	PH
LAPF	PH
LAPB	PH
X25	PH (B-channel) SM (D-channel)
X75P	PH
Q931	SM
X75	PH
TMC	SM
V120	SM
CESHL2	PHV
CESHL3	PHV
RLP	PHV
ISLP	PHV
A10	PHE
A11	PHE

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Up to eighty frames or packets or messages can be saved; the total number saved is dependent on the length of each frame or packet or message.

Format 1 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored channel.

Format 2 is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and customer premises equipment (CPE).

Format 3 is introduced with the PCF on PHE2 feature. It is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and the mobile station (MS).

Format 4 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored PCF trunk.

2. FORMAT

```
[1]    EXC:PM,a[,CH=u][,PROT=v][,TRIGLVL=w],[,PLANE=p1]. . .
       . . .[,MSGGRP=o1]PER[="x"][,OFF=a1]. . .
       . . .[,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________________

[2]    EXC:PM,a[,CH=u][,PROT=v][,TRIGLVL=w],[,PLANE=p1]. . .
       . . .[,MSGGRP=o1]TRIGVAL=y[,DIR=z][,OFF=a1]. . .
       . . .[,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________________

[3]    EXC:PM,PCFIP=d2-d2-d2-d2. . .
       . . .[,PDSNIP=d2-d2-d2-d2]. . .
       . . .[,PROT=e2][,TRIGLVL=f2],TRIGVAL=g2. . .
       . . .[,DIR=z][,OFF=a1][,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________________

[4]    EXC:PM,PCFIP=d2-d2-d2-d2. . .
       . . .[,PDSNIP=d2-d2-d2-d2]. . .
       . . .[,PROT=e2][,TRIGLVL=f2],PER[="x"]. . .
       . . .[,OFF=a1][,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`PER` = Terminate the recording session if a valid PER occurs on the channel for the specified trigger protocol. If a protocol error code (PEC) is not specified, then any valid PER for the trigger protocol will terminate the session.

`PRINT` = Print the output on the ROP.

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If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

XLATE = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols.

The base translation capability is controlled by "special feature" #32. Enhancements to the base translation capability are built on top of the base translation capability. Currently, the translator has one translation enhancement. The "special feature" #151 enhancement allows translation of the national ISDN (NI) protocol changes. The base translation capability "special feature" #32 supports translation for LAPB, LAPD, LAPF, Q.931 (custom only), X.25, X.75, and RLP protocols. The NI translation capability "special feature" #151 adds translation for Q.931 (national ISDN) protocol, and also to a lesser extent for the X.25 and X.75 (national ISDN changes) protocols.

After the introduction of PCF on PHE2 feature, the translator also allows the translation of A10 and A11 protocols.

If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted `atf.xxx` where `xxx` corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

a = Line identification. Valid value(s):

AIUEN=c-l^1-m^1-n^1
DEN=c-m-n-o
DN=b
DNUSEOC=c-f^1-r-t
DNUSTMC=c-f^1-r-t
DSLGM=c-q-d-e
IDCUEOC=c-q-r-t
IDCUTMC=c-q-r-t
ILEN=c-q-r-s
INEN=c-f^1-r-s
LCEN=c-j-k-l
LCKEN=c-c^1-k^1-d^1-e^1
MLHG=h-i
NEN=c-f^1-g^1-u^1-h^1-i^1-v^1-j^1
OIUEN=c-h^2-i^2-j^2-k^2-i^1-v^1-j^1
PKTDN=b
PLTEN=c-w^1-x^1-y^1-z^1
PORT=c-p
TKGMN=f-g
PSUEN=c-q^1-r^1-t^1-e
VBRI=c-a^2
VTRK=c-b^2-c^2

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`b` = The directory number.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PH channel member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Logical port number.

`q` = Integrated digital carrier unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = RT Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section

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of the Input Messages manual.

u = Channel to be monitored (applies only to basic rate interfaces). The default channel will be based on the method of line identification and, optionally, the protocol level to be monitored. The channel option will be required when invoked with the DN or multi-line hunt group line identifiers, and these identifiers reflect multiple packet services. In other words, if a channel cannot be determined (such as, a user has a circuit service on the D-channel, a packet service on the D-channel, and a packet service on the B-channel and all services use the same DN), the request will be denied. It will, however, be accepted if the input message included the appropriate channel option.

- D = D-channel.
- B1 = B1-channel. This option can only be used with permanent packet B-channel (PPB).
- B2 = B2-channel. This option can only be used with PPB.
- ODPPRI = Primary on-demand packet B-channel (valid for single and multiple on-demand B-channel packet switching). This option can only be used with on-demand B-channel services. With on-demand packet services, either B-channel is available for use by the on-demand packet service. There is no direct relationship between the on-demand packet service and a B-channel. The first B-channel used by the on-demand packet service is considered the primary channel.
- ODPSEC = Secondary on-demand packet B-channel (valid for multiple on-demand B-channel packet switching only). This option can only be used with on-demand B-channel services. The second B-channel used by the on-demand packet service is considered the secondary channel.

v = Protocol level (PROT). Valid value(s):

- CESHL2 = Monitor the CESHL2 protocol.
- CESHL3 = Monitor the CESHL3 protocol.
- ISLP = Monitor the ISLP protocol.
- LAPD = Monitor the LAPD protocol (default, if determined/requested channel is D).
- LAPB = Monitor the LAPB protocol (default, if determined/requested channel is other than D).
- LAPF = Monitor the LAPF protocol
- Q931 = Monitor the Q.931 protocol.
- RLP = Monitors the RLP protocol.
- TMC = Monitor the TMC protocol.
- V120 = Monitor the V.120 protocol.
- X25 = Monitor the X.25 protocol.
- X75 = Monitor the X.75 protocol.
- X75P = Monitor the X.75' protocol.

w = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

PROTOCOL	TRIGLVL
LAPD	LEVEL2
LAPF	LEVEL2
LAPB	LEVEL2
X25	LEVEL3
X75P	LEVEL3
Q931	LEVEL3
X75	LEVEL3

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TMC	LEVEL3
V120	LEVEL3
IDLC	LEVEL7
ATS	LEVEL7
CESHL2	LEVEL2
CESHL3	LEVEL3
RLP	LEVEL7
ISLP	LEVEL2

x = Specific PEC to trigger session termination. Refer to the 235-600-755 for details.

This field must be enclosed in double quotation marks.

y = TRIGVAL that terminates the recording session. Valid value(s):

Protocol(s):	Value(s):
LAPD	DISC = LAPD disconnect frame. DM ear LAPD disconnected mode frame. FRMR = LAPD frame reject frame. I = LAPD information frame. REJ = LAPD reject frame. RNR = LAPD receive not ready frame. RR = LAPD receive ready frame. SABM = LAPD set asynchronous balanced mode frame. SABME = LAPD set asynchronous balanced mode extended frame. UA = LAPD unnumbered acknowledgment frame. UI = LAPD unnumbered information frame. XID = LAPD identification frame.
LAPF	DISC = LAPF disconnect frame. DM ear LAPF disconnected mode frame. FRMR = LAPF frame reject frame. I = LAPF information frame. REJ = LAPF reject frame. RNR = LAPF receive not ready frame. RR = LAPF receive ready frame. SABM = LAPF set asynchronous balanced mode frame. SABME = LAPF set asynchronous balanced mode extended frame. UA = LAPF unnumbered acknowledgment frame. UI = LAPF unnumbered information frame. XID = LAPF identification frame.
LAPB	DISC = LAPB disconnect frame. DM = LAPB disconnected mode frame. FRMR = LAPB frame reject frame. I = LAPB information frame. REJ = LAPB reject frame. RNR = LAPB receive not ready frame. RR = LAPB receive ready frame. SABM = LAPB set asynchronous balanced mode frame. SABME = LAPB set asynchronous balanced mode extended frame. UA = LAPB unnumbered acknowledgment frame.
Q931	ALERTING = Q.931 alerting message.

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	ASSOCIATED = Q.931 associate message. ASSOCIATEDACK = Q.931 associate acknowledgment message. CALLPROCEED = Q.931 call proceeding message. CONFERENCE = Q.931 conference message. CONFERENCEACK = Q.931 conference acknowledgment message. CONFERENCEREJ = Q.931 conference reject message. CONNECT = Q.931 connect message. CONNECTACK = Q.931 connect acknowledgment message. DISCONNECT = Q.931 disconnect message. DROP = Q.931 drop message. DROPACK = Q.931 drop acknowledgment message. DROPREJECT = Q.931 drop reject message. FACILITY = Q.931 facility message. HOLD = Q.931 hold message. HOLDACK = Q.931 hold acknowledgment message. HOLDREJECT = Q.931 hold reject message. INFORMATION = Q.931 information message. KEYHOLD = Q.931 key hold message. KEYRELEASE = Q.931 key release message. KEYSETUP = Q.931 key setup message. KEYSETUPACK = Q.931 key setup acknowledge message. MGMTINFO = Q.931 management information message. NOTIFY = Q.931 notify message. PROGRESS = Q.931 progress message. RECONNECT = Q.931 reconnect message. RECONNECTACK = Q.931 reconnect acknowledgment message. RECONNECTREJ = Q.931 reconnect reject message. REDIRECT = Q.931 redirect message. REGISTER = Q.931 register message. RELEASE = Q.931 release message. RELEASECOMP = Q.931 release complete message. RESTART = Q.931 restart message. RESTARTACK = Q.931 restart acknowledgment message. RETRIEVE = Q.931 retrieve message. RETRIEVEACK = Q.931 retrieve acknowledge message. RETRIEVEREJ = Q.931 retrieve reject message. SEGMENT = Q.931 segment message. SERVICE = Q.931 service message. SERVICEACK = Q.931 service acknowledgment message. SETUP = Q.931 setup message. SETUPACK = Q.931 setup acknowledgment message. STATUS = Q.931 status message. STATUSINQ = Q.931 status inquiry message. TRANSFER = Q.931 transfer message. TRANSFERACK = Q.931 transfer acknowledgment message. TRANSFERREJ = Q.931 transfer reject message.
X25	CLEAR = X.25 clear request packet. CLEARCNF = X.25 clear confirmation packet. CONN = X.25 call accepted packet.

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	DATA = X.25 data packet. DIAG = X.25 diagnostic packet. INCCALL = X.25 incoming call request packet. INTR = X.25 interrupt packet. INTRCNF = X.25 interrupt confirmation packet. RESET = X.25 reset request packet. RESETCNF = X.25 reset confirmation packet. RESTART = X.25 restart request packet. RESTARTCNF = X.25 restart confirmation packet. RNR = X.25 receiver not ready packet. RR = X.25 receiver ready packet.
TMC	CONNECT = TMC connect message. CONNECTACK = TMC connect acknowledgment message. DISCONNECT = TMC disconnect message. INFORMATION = TMC information message. RELEASE = TMC release message. RELEASECOMP = TMC release complete message. SETUP = TMC setup message. STATUS = TMC status message. STATUSENQ = TMC status inquiry message. RESUME = Resume. RESUME-ACK = Resume acknowledge. SUSPEND = Suspend. SUSPEND-ACK = Suspend acknowledge.
V120	ABORT = V.120 abort segment. BEGIN = V.120 begin segment. MIDDLE = V.120 middle segment. FINAL = V.120 final segment. SINGLE = V.120 single segment.
X75 or X75P	CLEAR = X.75' or X75 clear request packet. CLEARCNF = X.75' or X75 clear confirmation packet. CONN = X.75' or X75 call accepted packet. DATA = X.75' or X75 data packet. DIAG = X.75' or X75 diagnostic packet. INCCALL = X.75' or X75 incoming call request packet. INTR = X.75' or X75 interrupt packet. INTRCNF = X.75' or X75 interrupt confirmation packet. RESET = X.75' or X75 reset request packet. RESETCNF = X.75' or X75 reset confirmation packet. RESTART = X.75' or X75 restart request packet. RESTARTCNF = X.75' or X75 restart confirmation packet. RNR = X.75' or X75 receiver not ready packet. RR = X.75' or X75 receiver ready packet.
CESHL2	DISC = CESHL2 disconnect frame. DM = CESHL2 disconnect mode frame. FRMR = CESHL2 S type reject frame. I = CESHL2 information frame. RR = CESHL2 receive ready frame.

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	RNR = CESHL2 receive not ready frame. REJ = CESHL2 U type reject frame. SABME = CESHL2 set asynchronous balanced mode extended frame. UA = CESHL2 unnumbered acknowledgment frame. UI = CESHL2 unnumbered information frame. XID = CESHL2 identification frame.
CESHL3	BURST DTMF = CESHL3 general burst dual tone multi-frequency (DTMF) message. START DTMF = CESHL3 start continuous DTMF message. STOP DTMF = CESHL3 stop continuous DTMF message. CLK ADJUST = CESHL3 clock adjust message. CONNECT = CESHL3 connect message. JOIN = CESHL3 join message. REMOVE = CESHL3 remove message. ACK = CESHL3 acknowledgment message. NACK = CESHL3 negative acknowledgment message. DROP = CESHL3 drop message. REV VOICE = CESHL3 reverse voice traffic message. REV MIXED = CESHL3 reverse mixed traffic message. FWD VOICE = CESHL3 forward voice traffic message. FWD VIXED = CESHL3 forward mixed traffic message. PWRCNTL = CESHL3 power control config. ANCSETUP = CESHL3 anchor setup message. FSCHREQ = CESHL3 forward supplementary channel request. FSCHRESP = CESHL3 forward supplementary channel response. FSCHREL = CESHL3 forward supplementary channel release. RSCHREL = CESHL3 reverse supplementary channel release. FSCHABT = CESHL3 forward supplementary channel abort. RSCHREQ = CESHL3 reverse supplementary channel request. RSCHRSP = CESHL3 reverse supplementary channel response. RSCHASN = CESHL3 reverse supplemental channel assign. ANCREL = CESHL3 anchor release. RSCHABT = CESHL3 reverse supplemental channel abort.
RLP	INV = RLP invalid message. UNSEG = RLP unsegmented data message. FIRST SEG = RLP first segmented data message. SECOND SEG = RLP second segmented data message. LAST SEG = RLP last segmented data message. IDLE = RLP idle message. ISFF = RLP intersegment fill message. NAK = RLP negative acknowledgment fill message. SYNC = RLP synchronous message. ACK = RLP acknowledgment message. SYNC ACK = RLP synchronous acknowledgment message. NULL = RLP3 null message. SACK = RLP3 synchronous acknowledgment message. SEG = RLP3 segmented data message. FILL = RLP3 fill frame message.
ISLP	UI = ISLP unnumbered information frame.

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z	= Direction (DIR) of frame or packet or message to trigger upon. Valid value(s): RCV = Trigger if the frame or packet or message is received by the switch from the CPE. RCV is the default. XMT = Trigger if the frame or packet or message is transmitted from the switch to the CPE.
a[1]	= Offset (OFF) of the number of frames to be recorded after detection of the trigger event (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b[1]	= Duration (DUR) of the recording session in seconds (default is 3600). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c[1]	= Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d[1]	= Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e[1]	= Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f[1]	= Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g[1]	= Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h[1]	= Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i[1]	= Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j[1]	= Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k[1]	= Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l[1]	= Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m[1]	= AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n[1]	= AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p[1]	= Allows the user to optionally specify the type of messages to be recorded when monitoring LAP D protocol on a frame relay bearer channel. User can request specifically to monitor

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either control messages or user data. However, if user data recording is requested, only a summary of the user data frame will be recorded, due to the sheer volume of the user data. The summary of the user data frame will contain the address information and the length of the actual user data frame transmitted or received. Valid value(s):

CTRL = Record only control messages. CTRL is the default value.

DATA = Record only a summary of the transmitted or received user data frame.

ALL = Record both control messages and a summary of the transmitted or received user data frame.

o[1] = Allows the user to optionally specify the type of messages or frames to be recorded when protocol monitoring is on a speech handler or an *AUTOPLEX®* data trunk. This option can be used with CESHL2 or CESHL3 or RLP protocol. Valid value(s):

CTRL = Requesting recording of control frames (S and I) for CESHL2 protocol. Default value for CESHL2 protocol at level 2 recording.

TRAF = Requesting recording of UI traffic messages for CESHL3 protocol.

IP = Requesting recording of inter-processor messages for CESHL3 protocol. Default value for CESHL3 protocol at level 3 recording.

RLP = Requesting recording of non-idle RLP frames for RLP protocol. Default value for RLP protocol at level 7 recording.

ALL = Requesting recording of all messages for CESHL2 or CESHL3 or RLP protocol. This will result in recording S, I, XID, and, UI frames for CESHL2 protocol, or UI plus IP frames for CESHL3 protocol, or RLP plus idle frames for RLP protocol.

q[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[1] = Channel number (CHAN.) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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a[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[2] = IP address field. Valid value is number between 0-255.

e[2] =Protocol (PROT) level for PCF (Format 3 and Format 4). Valid value(s):

A10 = Monitor the A10 protocol.

A11 = Monitor the A11 protocol.

f[2] = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

PROTOCOL	TRIGLVL
A10	LEVEL7
A11	LEVEL7

g[2] = PCF PM TRIGVAL that terminates the recording session. Valid value(s):

Protocol(s):	Value(s):
A10	A10_UNKNOWN = A10 unknown frame type. GRE = A10 GRE frame.
A11	A11_UNKNOWN = A11 unknown message type. REGREQ = A11 request message. REGRPL = A11 reply message. REGUPD = A11 update message. REGACK = A11 acknowledge message.

h[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[2] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[2] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or was not acceptable.

PF = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PM output message.

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`RL` = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

```
OP:PM
STP:PM
```

Output Message(s):

```
EXC:PM
OP:PM
STP:PM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-220 *Corrective Maintenance*
235-190-104 *ISDN Feature Descriptions*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*
235-600-755 *Protocol Error Record Descriptions*
235-900-341 *National ISDN Basic Rate Interface Specification*

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EXC:PM-C

Software Release: 5E18(1) - 5E19(1)
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.

The monitoring function records frames or packets or messages transmitted or received for the requested recording protocol level. The frames or packets or messages recorded are those surrounding a particular specified event, either a particular frame or packet or message or a particular protocol error record (PER). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

Depending on the protocol, the protocol monitoring session will be recorded on either an SM or a PH. The following table indicates which processor records the protocol exchange. The number of sessions which can concurrently record on a given processor are:

- 8 per office.
- 2 per SM and 4 per SM 2000.
- 2 per PH and PH2.
- 3 per PH3 and PH4.
- 2 per PHV1, PHV2, and PHV3.
- 1 per PH4 connected to frame relay bearer channels (FRBCs).
- 3 per PHE2.

It is very important for the user to understand that when protocol monitoring is turned on to monitor a frame relay bearer channel connected to a PH4, it will result in real time performance degradation of the PH4. Therefore, the user is strongly urged to limit the duration of protocol monitoring session on a frame relay bearer channel to the absolute bare minimum.

PROTOCOL	RECORDING PROCESSOR
LAPD	PH
LAPF	PH
LAPB	PH
X25	PH (B-channel) SM (D-channel)
X75P	PH
Q931	SM
X75	PH
TMC	SM
V120	SM
CESHL2	PHV
CESHL3	PHV
RLP	PHV
ISLP	PHV
A10	PHE
A11	PHE

Up to eighty frames or packets or messages can be saved; the total number saved is dependent on the length of each frame or packet or message.

Format 1 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored channel.

Format 2 is specified when a recording session is to be terminated upon the occurrence of a particular frame

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or packet or message traveling in the specified direction between switch and customer premises equipment (CPE).

Format 3 is introduced with the PCF on PHE2 feature. It is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and the mobile station (MS).

Format 4 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored PCF trunk.

2. FORMAT

```
[1]    EXC:PM,a[,CH=u][,PROT=v][,TRIGLVL=w],[,PLANE=p1]...
       ...[,MSGGRP=o1]PER[="x"][,OFF=a1]...
       ...[,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________

[2]    EXC:PM,a[,CH=u][,PROT=v][,TRIGLVL=w],[,PLANE=p1]...
       ...[,MSGGRP=o1]TRIGVAL=y[,DIR=z][,OFF=a1]...
       ...[,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________

[3]    EXC:PM,PCFIP=d2-d2-d2-d2...
       ...[,PDSNIP=d2-d2-d2-d2]...
       ...[,MSID=l2 | ESN=m2]...
       ...[,PROT=e2][,TRIGLVL=f2],TRIGVAL=g2...
       ...[,DIR=z][,OFF=a1][,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________

[4]    EXC:PM,PCFIP=d2-d2-d2-d2...
       ...[,PDSNIP=d2-d2-d2-d2]...
       ...[,MSID=l2 | ESN=m2]...
       ...[,PROT=e2][,TRIGLVL=f2],PER[="x"]...
       ...[,OFF=a1][,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`PER` = Terminate the recording session if a valid PER occurs on the channel for the specified trigger protocol. If a protocol error code (PEC) is not specified, then any valid PER for the trigger protocol will terminate the session.

`PRINT` = Print the output on the ROP.

If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

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XLATE = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols.

The base translation capability is controlled by "special feature" #32. Enhancements to the base translation capability are built on top of the base translation capability. Currently, the translator has one translation enhancement. The "special feature" #151 enhancement allows translation of the national ISDN (NI) protocol changes. The base translation capability "special feature" #32 supports translation for LAPB, LAPD, LAPF, Q.931 (custom only), X.25, X.75, and RLP protocols. The NI translation capability "special feature" #151 adds translation for Q.931 (National ISDN) protocol, and also to a lesser extent for the X.25 and X.75 (National ISDN changes) protocols.

After the introduction of PCF on PHE2 feature, the translator also allows the translation of A10 and A11 protocols.

If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted `atf.xxx` where `xxx` corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

a = Line identification. Valid value(s):

AIUEN=c-l^1-m^1-n^1
DEN=c-m-n-o
DN=b
DNUSEOC=c-f^1-r-t
DNUSTMC=c-f^1-r-t
DSLGM=c-q-d-e
IDCUEOC=c-q-r-t
IDCUTMC=c-q-r-t
ILEN=c-q-r-s
INEN=c-f^1-r-s
LCEN=c-j-k-l
LCKEN=c-c^1-k^1-d^1-e^1
MLHG=h-i
NEN=c-f^1-g^1-u^1-h^1-i^1-v^1-j^1
OIUEN=c-h^2-i^2-j^2-k^2-i^1-v^1-j^1
PKTDN=b
PLTEN=c-w^1-x^1-y^1-z^1
PORT=c-p
TKGMN=f-g
PSUEN=c-q^1-r^1-t^1-e
VBRI=c-a^2
VTRK=c-b^2-c^2

b = The directory number.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes

section of the Input Messages manual.

`d` = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PH channel member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Logical port number.

`q` = Integrated digital carrier unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = RT Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Channel to be monitored (applies only to basic rate interfaces). The default channel will be based on the method of line identification and, optionally, the protocol level to be monitored.

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The channel option will be required when invoked with the DN or multi-line hunt group line identifiers, and these identifiers reflect multiple packet services. In other words, if a channel cannot be determined (such as, a user has a circuit service on the D-channel, a packet service on the D-channel, and a packet service on the B-channel and all services use the same DN), the request will be denied. It will, however, be accepted if the input message included the appropriate channel option. Valid value(s):

`B1` = B1-channel. This option can only be used with permanent packet B-channel (PPB).

`B2` = B2-channel. This option can only be used with PPB.

`D` = D-channel.

`ODPPRI` = Primary on-demand packet B-channel (valid for single and multiple on-demand B-channel packet switching). This option can only be used with on-demand B-channel services. With on-demand packet services, either B-channel is available for use by the on-demand packet service. There is no direct relationship between the on-demand packet service and a B-channel. The first B-channel used by the on-demand packet service is considered the primary channel.

`ODPSEC` = Secondary on-demand packet B-channel (valid for multiple on-demand B-channel packet switching only). This option can only be used with on-demand B-channel services. The second B-channel used by the on-demand packet service is considered the secondary channel.

`v` = Protocol level (PROT). Valid value(s):

`CESHL2` = Monitor the CESHL2 protocol.

`CESHL3` = Monitor the CESHL3 protocol.

`ISLP` = Monitor the ISLP protocol.

`LAPD` = Monitor the LAPD protocol (default, if determined/requested channel is D).

`LAPB` = Monitor the LAPB protocol (default, if determined/requested channel is other than D).

`LAPF` = Monitor the LAPF protocol

`Q931` = Monitor the Q.931 protocol.

`RLP` = Monitors the RLP protocol.

`TMC` = Monitor the TMC protocol.

`V120` = Monitor the V.120 protocol.

`X25` = Monitor the X.25 protocol.

`X75` = Monitor the X.75 protocol.

`X75P` = Monitor the X.75' protocol.

`w` = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

PROTOCOL	TRIGLVL
LAPD	LEVEL2
LAPF	LEVEL2
LAPB	LEVEL2
X25	LEVEL3
X75P	LEVEL3
Q931	LEVEL3
X75	LEVEL3
TMC	LEVEL3
V120	LEVEL3
IDLC	LEVEL7
ATS	LEVEL7
CESHL2	LEVEL2

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CESHL3	LEVEL3
RLP	LEVEL7
ISLP	LEVEL2

x = Specific PEC to trigger session termination. Refer to the 235-600-755 for details.

This field must be enclosed in double quotation marks.

y = TRIGVAL that terminates the recording session. Valid value(s):

Protocol(s):	Value(s):
LAPD	DISC = LAPD disconnect frame. DM = LAPD disconnected mode frame. FRMR = LAPD frame reject frame. I = LAPD information frame. REJ = LAPD reject frame. RNR = LAPD receive not ready frame. RR = LAPD receive ready frame. SABM = LAPD set asynchronous balanced mode frame. SABME = LAPD set asynchronous balanced mode extended frame. UA = LAPD unnumbered acknowledgment frame. UI = LAPD unnumbered information frame. XID = LAPD identification frame.
LAPF	DISC = LAPF disconnect frame. DM = LAPF disconnected mode frame. FRMR = LAPF frame reject frame. I = LAPF information frame. REJ = LAPF reject frame. RNR = LAPF receive not ready frame. RR = LAPF receive ready frame. SABM = LAPF set asynchronous balanced mode frame. SABME = LAPF set asynchronous balanced mode extended frame. UA = LAPF unnumbered acknowledgment frame. UI = LAPF unnumbered information frame. XID = LAPF identification frame.
LAPB	DISC = LAPB disconnect frame. DM = LAPB disconnected mode frame. FRMR = LAPB frame reject frame. I = LAPB information frame. REJ = LAPB reject frame. RNR = LAPB receive not ready frame. RR = LAPB receive ready frame. SABM = LAPB set asynchronous balanced mode frame. SABME = LAPB set asynchronous balanced mode extended frame. UA = LAPB unnumbered acknowledgment frame.
Q931	ALERTING = Q.931 alerting message. ASSOCIATED = Q.931 associate message. ASSOCIATEDACK = Q.931 associate acknowledgment message. CALLPROCEED = Q.931 call proceeding message. CONFERENCE = Q.931 conference message.

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	CONFERENCEACK = Q.931 conference acknowledgment message. CONFERENCEREJ = Q.931 conference reject message. CONNECT = Q.931 connect message. CONNECTACK = Q.931 connect acknowledgment message. DISCONNECT = Q.931 disconnect message. DROP = Q.931 drop message. DROPACK = Q.931 drop acknowledgment message. DROPREJECT = Q.931 drop reject message. FACILITY = Q.931 facility message. HOLD = Q.931 hold message. HOLDACK = Q.931 hold acknowledgment message. HOLDREJECT = Q.931 hold reject message. INFORMATION = Q.931 information message. KEYHOLD = Q.931 key hold message. KEYRELEASE = Q.931 key release message. KEYSETUP = Q.931 key setup message. KEYSETUPACK = Q.931 key setup acknowledge message. MGMTINFO = Q.931 management information message. NOTIFY = Q.931 notify message. PROGRESS = Q.931 progress message. RECONNECT = Q.931 reconnect message. RECONNECTACK = Q.931 reconnect acknowledgment message. RECONNECTREJ = Q.931 reconnect reject message. REDIRECT = Q.931 redirect message. REGISTER = Q.931 register message. RELEASE = Q.931 release message. RELEASECOMP = Q.931 release complete message. RESTART = Q.931 restart message. RESTARTACK = Q.931 restart acknowledgment message. RETRIEVE = Q.931 retrieve message. RETRIEVEACK = Q.931 retrieve acknowledge message. RETRIEVEREJ = Q.931 retrieve reject message. SEGMENT = Q.931 segment message. SERVICE = Q.931 service message. SERVICEACK = Q.931 service acknowledgment message. SETUP = Q.931 setup message. SETUPACK = Q.931 setup acknowledgment message. STATUS = Q.931 status message. STATUSINQ = Q.931 status inquiry message. TRANSFER = Q.931 transfer message. TRANSFERACK = Q.931 transfer acknowledgment message. TRANSFERREJ = Q.931 transfer reject message.
X25	CLEAR = X.25 clear request packet. CLEARCNF = X.25 clear confirmation packet. CONN = X.25 call accepted packet. DATA = X.25 data packet. DIAG = X.25 diagnostic packet. INCCALL = X.25 incoming call request packet. INTR = X.25 interrupt packet.

	INTRCNF = X.25 interrupt confirmation packet. RESET = X.25 reset request packet. RESETCNF = X.25 reset confirmation packet. RESTART = X.25 restart request packet. RESTARTCNF = X.25 restart confirmation packet. RNR = X.25 receiver not ready packet. RR = X.25 receiver ready packet.
TMC	CONNECT = TMC connect message. CONNECTACK = TMC connect acknowledgment message. DISCONNECT = TMC disconnect message. INFORMATION = TMC information message. RELEASE = TMC release message. RELEASECOMP = TMC release complete message. SETUP = TMC setup message. STATUS = TMC status message. STATUSENQ = TMC status inquiry message. RESUME = Resume. RESUME-ACK = Resume acknowledge. SUSPEND = Suspend. SUSPEND-ACK = Suspend acknowledge.
V120	ABORT = V.120 abort segment. BEGIN = V.120 begin segment. MIDDLE = V.120 middle segment. FINAL = V.120 final segment. SINGLE = V.120 single segment.
X75 or X75P	CLEAR = X.75' or X75 clear request packet. CLEARCNF = X.75' or X75 clear confirmation packet. CONN = X.75' or X75 call accepted packet. DATA = X.75' or X75 data packet. DIAG = X.75' or X75 diagnostic packet. INCCALL = X.75' or X75 incoming call request packet. INTR = X.75' or X75 interrupt packet. INTRCNF = X.75' or X75 interrupt confirmation packet. RESET = X.75' or X75 reset request packet. RESETCNF = X.75' or X75 reset confirmation packet. RESTART = X.75' or X75 restart request packet. RESTARTCNF = X.75' or X75 restart confirmation packet. RNR = X.75' or X75 receiver not ready packet. RR = X.75' or X75 receiver ready packet.
CESHL2	DISC = CESHL2 disconnect frame. DM = CESHL2 disconnect mode frame. FRMR = CESHL2 S type reject frame. I = CESHL2 information frame. RR = CESHL2 receive ready frame. RNR = CESHL2 receive not ready frame. REJ = CESHL2 U type reject frame. SABME = CESHL2 set asynchronous balanced mode extended frame. UA = CESHL2 unnumbered acknowledgment frame.

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	UI = CESHL2 unnumbered information frame. XID = CESHL2 identification frame.
CESHL3	ACK = CESHL3 acknowledgment message. ANCREL = CESHL3 anchor release. ANCSETUP = CESHL3 anchor setup message. BURST DTMF = CESHL3 general burst dual tone multi-frequency (DTMF) message. CLK ADJUST = CESHL3 clock adjust message. CONNECT = CESHL3 connect message. DROP = CESHL3 drop message. FSCHABT = CESHL3 forward supplementary channel abort. FSCHREL = CESHL3 forward supplementary channel release. FSCHREQ = CESHL3 forward supplementary channel request. FSCHRESP = CESHL3 forward supplementary channel response. FWD MIXED = CESHL3 forward mixed traffic message. FWD VOICE = CESHL3 forward voice traffic message. JOIN = CESHL3 join message. NACK = CESHL3 negative acknowledgment message. PWRCNTL = CESHL3 power control config. REMOVE = CESHL3 remove message. REV MIXED = CESHL3 reverse mixed traffic message. REV VOICE = CESHL3 reverse voice traffic message. RSCHABT = CESHL3 reverse supplemental channel abort. RSCHASN = CESHL3 reverse supplemental channel assign. RSCHREL = CESHL3 reverse supplementary channel release. RSCHREQ = CESHL3 reverse supplementary channel request. RSCHRSP = CESHL3 reverse supplementary channel response. SMVCNTL = CESHL3 selectable mode vocoder control. START DTMF = CESHL3 start continuous DTMF message. STOP DTMF = CESHL3 stop continuous DTMF message. TRANSPORT = CESHL3 RLP measurements transport.
RLP	ACK = RLP acknowledgment message. FILL = RLP3 fill frame message. FIRST SEG = RLP first segmented data message. IDLE = RLP idle message. INV = RLP invalid message. ISFF = RLP intersegment fill message. LAST SEG = RLP last segmented data message. NAK = RLP negative acknowledgment fill message. NULL = RLP3 null message. SACK = RLP3 synchronous acknowledgment message. SECOND SEG = RLP second segmented data message. SEG = RLP3 segmented data message. SYNC = RLP synchronous message. SYNC ACK = RLP synchronous acknowledgment message. UNSEG = RLP unsegmented data message.
ISLP	UI = ISLP unnumbered information frame.

z = Direction (DIR) of frame or packet or message to trigger upon. Valid value(s):
- RCV = Trigger if the frame or packet or message is received by the switch from the CPE. RCV is the default.
- XMT = Trigger if the frame or packet or message is transmitted from the switch to the CPE.

a[1] = Offset (OFF) of the number of frames to be recorded after detection of the trigger event (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Duration (DUR) of the recording session in seconds (default is 3600). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[1] = Allows the user to optionally specify the type of messages to be recorded when monitoring LAP D protocol on a frame relay bearer channel. User can request specifically to monitor either control messages or user data. However, if user data recording is requested, only a

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summary of the user data frame will be recorded, due to the sheer volume of the user data. The summary of the user data frame will contain the address information and the length of the actual user data frame transmitted or received. Valid value(s):

CTRL = Record only control messages. CTRL is the default value.

DATA = Record only a summary of the transmitted or received user data frame.

ALL = Record both control messages and a summary of the transmitted or received user data frame.

o[1] = Allows the user to optionally specify the type of messages or frames to be recorded when protocol monitoring is on a speech handler or an *AUTOPLEX®* data trunk. This option can be used with CESHL2 or CESHL3 or RLP protocol. Valid value(s):

CTRL = Requesting recording of control frames (S and I) for CESHL2 protocol. Default value for CESHL2 protocol at level 2 recording.

TRAF = Requesting recording of UI traffic messages for CESHL3 protocol.

IP = Requesting recording of inter-processor messages for CESHL3 protocol. Default value for CESHL3 protocol at level 3 recording.

RLP = Requesting recording of non-idle RLP frames for RLP protocol. Default value for RLP protocol at level 7 recording.

ALL = Requesting recording of all messages for CESHL2 or CESHL3 or RLP protocol. This will result in recording S, I, XID, and, UI frames for CESHL2 protocol, or UI plus IP frames for CESHL3 protocol, or RLP plus idle frames for RLP protocol.

q[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[1] = Channel number (CHAN.) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of

the Input Messages manual.

b[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[2] = IP address field. Valid value is number between 0-255.

e[2] =Protocol (PROT) level for PCF (Format 3 and Format 4). Valid value(s):
A10 = Monitor the A10 protocol.
A11 = Monitor the A11 protocol.

f[2] = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

PROTOCOL	TRIGLVL
A10	LEVEL7
A11	LEVEL7

g[2] = PCF PM TRIGVAL that terminates the recording session. Valid value(s):

Protocol(s):	Value(s):
A10	A10_UNKNOWN = A10 unknown frame type. GRE = A10 GRE frame.
A11	A11_UNKNOWN = A11 unknown message type. REGACK = A11 acknowledge message. REGREQ = A11 request message. REGRPL = A11 reply message. REGUPD = A11 update message.

h[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[2] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[2] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[2] = Mobile station identifier. Valid value is a 15 decimal digits number.

m[2] = Equipment serial number. Valid value is a number between 0-0xffffffff.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or was not acceptable.

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PF = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PM output message.

RL = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

```
OP:PM
STP:PM
```

Output Message(s):

```
EXC:PM
OP:PM
STP:PM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-220 *Corrective Maintenance*
235-190-104 *ISDN Feature Descriptions*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*
235-600-755 *Protocol Error Record Descriptions*
235-900-341 *National ISDN Basic Rate Interface Specification*

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EXC:PM-D

Software Release: 5E20(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.

The monitoring function records frames or packets or messages transmitted or received for the requested recording protocol level. The frames or packets or messages recorded are those surrounding a particular specified event, either a particular frame or packet or message or a particular protocol error record (PER). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

Depending on the protocol, the protocol monitoring session will be recorded on either an SM or a PH. The following table indicates which processor records the protocol exchange. The number of sessions which can concurrently record on a given processor are:

- 8 per office.
- 2 per SM and 4 per SM 2000.
- 2 per PH and PH2.
- 3 per PH3 and PH4.
- 2 per PHV1, PHV2, and PHV3.
- 1 per PH4 connected to frame relay bearer channels (FRBCs).
- 3 per PHE2.

It is very important for the user to understand that when protocol monitoring is turned on to monitor a frame relay bearer channel connected to a PH4, it will result in real time performance degradation of the PH4. Therefore, the user is strongly urged to limit the duration of protocol monitoring session on a frame relay bearer channel to the absolute bare minimum.

PROTOCOL	RECORDING PROCESSOR
LAPD	PH
LAPF	PH
LAPB	PH
X25	PH (B-channel) SM (D-channel)
X75P	PH
Q931	SM
X75	PH
TMC	SM
V120	SM
CESHL2	PHV
CESHL3	PHV
RLP	PHV
ISLP	PHV
A10	PHE
A11	PHE

Up to eighty frames or packets or messages can be saved; the total number saved is dependent on the length of each frame or packet or message.

Format 1 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored channel.

Format 2 is specified when a recording session is to be terminated upon the occurrence of a particular frame

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or packet or message traveling in the specified direction between switch and customer premises equipment (CPE).

Format 3 is introduced with the PCF on PHE2 feature. It is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and the mobile station (MS).

Format 4 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored PCF trunk.

2. FORMAT

```
[1]    EXC:PM,a[,CH=u][,PROT=v][,TRIGLVL=w],[,PLANE=p1]. . .
       . . .[,MSGGRP=o1]PER[="x"][,OFF=a1]. . .
       . . .[,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________________

[2]    EXC:PM,a[,CH=u][,PROT=v][,TRIGLVL=w],[,PLANE=p1]. . .
       . . .[,MSGGRP=o1]TRIGVAL=y[,DIR=z][,OFF=a1]. . .
       . . .[,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________________

[3]    EXC:PM,PCFIP=d2-d2-d2-d2. . .
       . . .[,PDSNIP=d2-d2-d2-d2]. . .
       . . .[,MSID=l2 | ESN=m2 | MEID=n2] . . .
       . . .[,PROT=e2][,TRIGLVL=f2],TRIGVAL=g2. . .
       . . .[,DIR=z][,OFF=a1][,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________________

[4]    EXC:PM,PCFIP=d2-d2-d2-d2. . .
       . . .[,PDSNIP=d2-d2-d2-d2]. . .
       . . .[,MSID=l2 | ESN=m2 | MEID=n2] . . .
       . . .[,PROT=e2][,TRIGLVL=f2],PER[="x"]. . .
       . . .[,OFF=a1][,DUR=b1][,PRINT][,XLATE];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`PER` = Terminate the recording session if a valid PER occurs on the channel for the specified trigger protocol. If a protocol error code (PEC) is not specified, then any valid PER for the trigger protocol will terminate the session.

`PRINT` = Print the output on the ROP.

If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

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XLATE = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols.

The base translation capability is controlled by "special feature" #32. Enhancements to the base translation capability are built on top of the base translation capability. Currently, the translator has one translation enhancement. The "special feature" #151 enhancement allows translation of the national ISDN (NI) protocol changes. The base translation capability "special feature" #32 supports translation for LAPB, LAPD, LAPF, Q.931 (custom only), X.25, X.75, and RLP protocols. The NI translation capability "special feature" #151 adds translation for Q.931 (National ISDN) protocol, and also to a lesser extent for the X.25 and X.75 (National ISDN changes) protocols.

After the introduction of PCF on PHE2 feature, the translator also allows the translation of A10 and A11 protocols.

If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted `atf.xxx` where `xxx` corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

a = Line identification. Valid value(s):

AIUEN=c-l^1-m^1-n^1
DEN=c-m-n-o
DN=b
DNUSEOC=c-f^1-r-t
DNUSTMC=c-f^1-r-t
DSLGM=c-q-d-e
IDCUEOC=c-q-r-t
IDCUTMC=c-q-r-t
ILEN=c-q-r-s
INEN=c-f^1-r-s
LCEN=c-j-k-l
LCKEN=c-c^1-k^1-d^1-e^1
MLHG=h-i
NEN=c-f^1-g^1-u^1-h^1-i^1-v^1-j^1
OIUEN=c-h^2-i^2-j^2-k^2-i^1-v^1-j^1
PKTDN=b
PLTEN=c-w^1-x^1-y^1-z^1
PORT=c-p
TKGMN=f-g
PSUEN=c-q^1-r^1-t^1-e
VBRI=c-a^2
VTRK=c-b^2-c^2

b = The directory number.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes

section of the Input Messages manual.

`d` = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PH channel member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Logical port number.

`q` = Integrated digital carrier unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = RT Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Channel to be monitored (applies only to basic rate interfaces). The default channel will be based on the method of line identification and, optionally, the protocol level to be monitored.

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The channel option will be required when invoked with the DN or multi-line hunt group line identifiers, and these identifiers reflect multiple packet services. In other words, if a channel cannot be determined (such as, a user has a circuit service on the D-channel, a packet service on the D-channel, and a packet service on the B-channel and all services use the same DN), the request will be denied. It will, however, be accepted if the input message included the appropriate channel option. Valid value(s):

`B1` = B1-channel. This option can only be used with permanent packet B-channel (PPB).

`B2` = B2-channel. This option can only be used with PPB.

`D` = D-channel.

`ODPPRI` = Primary on-demand packet B-channel (valid for single and multiple on-demand B-channel packet switching). This option can only be used with on-demand B-channel services. With on-demand packet services, either B-channel is available for use by the on-demand packet service. There is no direct relationship between the on-demand packet service and a B-channel. The first B-channel used by the on-demand packet service is considered the primary channel.

`ODPSEC` = Secondary on-demand packet B-channel (valid for multiple on-demand B-channel packet switching only). This option can only be used with on-demand B-channel services. The second B-channel used by the on-demand packet service is considered the secondary channel.

`v` = Protocol level (PROT). Valid value(s):

`CESHL2` = Monitor the CESHL2 protocol.

`CESHL3` = Monitor the CESHL3 protocol.

`ISLP` = Monitor the ISLP protocol.

`LAPB` = Monitor the LAPB protocol (default, if determined/requested channel is other than D).

`LAPD` = Monitor the LAPD protocol (default, if determined/requested channel is D).

`LAPF` = Monitor the LAPF protocol

`Q931` = Monitor the Q.931 protocol.

`RLP` = Monitors the RLP protocol.

`TMC` = Monitor the TMC protocol.

`V120` = Monitor the V.120 protocol.

`X25` = Monitor the X.25 protocol.

`X75` = Monitor the X.75 protocol.

`X75P` = Monitor the X.75' protocol.

`w` = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

PROTOCOL	TRIGLVL
LAPD	LEVEL2
LAPF	LEVEL2
LAPB	LEVEL2
X25	LEVEL3
X75P	LEVEL3
Q931	LEVEL3
X75	LEVEL3
TMC	LEVEL3y
V120	LEVEL3
IDLC	LEVEL7
ATS	LEVEL7
CESHL2	LEVEL2

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CESHL3	LEVEL3
RLP	LEVEL7
ISLP	LEVEL2

The trigger level/protocol must be terminated on the same processor as the recording protocol.

For CESHL2, CESHL3, ISLP, and RLP protocols there is only one triggering level which is the above indicated default value.

x = Specific PEC to trigger session termination. Refer to the 235-600-755 for details.

This field must be enclosed in double quotation marks.

y = TRIGVAL that terminates the recording session. Valid value(s):

Protocol(s):	Value(s):
LAPD	DISC = LAPD disconnect frame. DM = LAPD disconnected mode frame. FRMR = LAPD frame reject frame. I = LAPD information frame. REJ = LAPD reject frame. RNR = LAPD receive not ready frame. RR = LAPD receive ready frame. SABM = LAPD set asynchronous balanced mode frame. SABME = LAPD set asynchronous balanced mode extended frame. UA = LAPD unnumbered acknowledgment frame. UI = LAPD unnumbered information frame. XID = LAPD identification frame.
LAPF	DISC = LAPF disconnect frame. DM = LAPF disconnected mode frame. FRMR = LAPF frame reject frame. I = LAPF information frame. REJ = LAPF reject frame. RNR = LAPF receive not ready frame. RR = LAPF receive ready frame. SABM = LAPF set asynchronous balanced mode frame. SABME = LAPF set asynchronous balanced mode extended frame. UA = LAPF unnumbered acknowledgment frame. UI = LAPF unnumbered information frame. XID = LAPF identification frame.
LAPB	DISC = LAPB disconnect frame. DM = LAPB disconnected mode frame. FRMR = LAPB frame reject frame. I = LAPB information frame. REJ = LAPB reject frame. RNR = LAPB receive not ready frame. RR = LAPB receive ready frame. SABM = LAPB set asynchronous balanced mode frame. SABME = LAPB set asynchronous balanced mode extended frame. UA = LAPB unnumbered acknowledgment frame.

Q931	ALERTING = Q.931 alerting message. ASSOCIATED = Q.931 associate message. ASSOCIATEDACK = Q.931 associate acknowledgment message. CALLPROCEED = Q.931 call proceeding message. CONFERENCE = Q.931 conference message. CONFERENCEACK = Q.931 conference acknowledgment message. CONFERENCEREJ = Q.931 conference reject message. CONNECT = Q.931 connect message. CONNECTACK = Q.931 connect acknowledgment message. DISCONNECT = Q.931 disconnect message. DROP = Q.931 drop message. DROPACK = Q.931 drop acknowledgment message. DROPREJECT = Q.931 drop reject message. FACILITY = Q.931 facility message. HOLD = Q.931 hold message. HOLDACK = Q.931 hold acknowledgment message. HOLDREJECT = Q.931 hold reject message. INFORMATION = Q.931 information message. KEYHOLD = Q.931 key hold message. KEYRELEASE = Q.931 key release message. KEYSETUP = Q.931 key setup message. KEYSETUPACK = Q.931 key setup acknowledge message. MGMTINFO = Q.931 management information message. NOTIFY = Q.931 notify message. PROGRESS = Q.931 progress message. RECONNECT = Q.931 reconnect message. RECONNECTACK = Q.931 reconnect acknowledgment message. RECONNECTREJ = Q.931 reconnect reject message. REDIRECT = Q.931 redirect message. REGISTER = Q.931 register message. RELEASE = Q.931 release message. RELEASECOMP = Q.931 release complete message. RESTART = Q.931 restart message. RESTARTACK = Q.931 restart acknowledgment message. RETRIEVE = Q.931 retrieve message. RETRIEVEACK = Q.931 retrieve acknowledge message. RETRIEVEREJ = Q.931 retrieve reject message. SEGMENT = Q.931 segment message. SERVICE = Q.931 service message. SERVICEACK = Q.931 service acknowledgment message. SETUP = Q.931 setup message. SETUPACK = Q.931 setup acknowledgment message. STATUS = Q.931 status message. STATUSINQ = Q.931 status inquiry message. TRANSFER = Q.931 transfer message. TRANSFERACK = Q.931 transfer acknowledgment message. TRANSFERREJ = Q.931 transfer reject message.
X25	CLEAR = X.25 clear request packet. CLEARCNF = X.25 clear confirmation packet.

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	CONN = X.25 call accepted packet. DATA = X.25 data packet. DIAG = X.25 diagnostic packet. INCCALL = X.25 incoming call request packet. INTR = X.25 interrupt packet. INTRCNF = X.25 interrupt confirmation packet. RESET = X.25 reset request packet. RESETCNF = X.25 reset confirmation packet. RESTART = X.25 restart request packet. RESTARTCNF = X.25 restart confirmation packet. RNR = X.25 receiver not ready packet. RR = X.25 receiver ready packet.
TMC	CONNECT = TMC connect message. CONNECTACK = TMC connect acknowledgment message. DISCONNECT = TMC disconnect message. INFORMATION = TMC information message. RELEASE = TMC release message. RELEASECOMP = TMC release complete message. RESUME = Resume. RESUME-ACK = Resume acknowledge. SETUP = TMC setup message. STATUS = TMC status message. STATUSENQ = TMC status inquiry message. SUSPEND = Suspend. SUSPEND-ACK = Suspend acknowledge.
V120	ABORT = V.120 abort segment. BEGIN = V.120 begin segment. FINAL = V.120 final segment. MIDDLE = V.120 middle segment. SINGLE = V.120 single segment.
X75 or X75P	CLEAR = X.75' or X75 clear request packet. CLEARCNF = X.75' or X75 clear confirmation packet. CONN = X.75' or X75 call accepted packet. DATA = X.75' or X75 data packet. DIAG = X.75' or X75 diagnostic packet. INCCALL = X.75' or X75 incoming call request packet. INTR = X.75' or X75 interrupt packet. INTRCNF = X.75' or X75 interrupt confirmation packet. RESET = X.75' or X75 reset request packet. RESETCNF = X.75' or X75 reset confirmation packet. RESTART = X.75' or X75 restart request packet. RESTARTCNF = X.75' or X75 restart confirmation packet. RNR = X.75' or X75 receiver not ready packet. RR = X.75' or X75 receiver ready packet.
CESHL2	DISC = CESHL2 disconnect frame. DM = CESHL2 disconnect mode frame. FRMR = CESHL2 S type reject frame. I = CESHL2 information frame.

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	RR = CESHL2 receive ready frame. RNR = CESHL2 receive not ready frame. REJ = CESHL2 U type reject frame. SABME = CESHL2 set asynchronous balanced mode extended frame. UA = CESHL2 unnumbered acknowledgment frame. UI = CESHL2 unnumbered information frame. XID = CESHL2 identification frame.
CESHL3	ACK = CESHL3 acknowledgment message. ANCREL = CESHL3 anchor release. ANCSETUP = CESHL3 anchor setup message. BURST DTMF = CESHL3 general burst dual tone multi-frequency (DTMF) message. CLK ADJUST = CESHL3 clock adjust message. CONNECT = CESHL3 connect message. DROP = CESHL3 drop message. FWD MIXED = CESHL3 forward mixed traffic message. FSCHABT = CESHL3 forward supplementary channel abort. FSCHREL = CESHL3 forward supplementary channel release. FSCHREQ = CESHL3 forward supplementary channel request. FSCHRESP = CESHL3 forward supplementary channel response. FWD VOICE = CESHL3 forward voice traffic message. JOIN = CESHL3 join message. NACK = CESHL3 negative acknowledgment message. PWRCNTL = CESHL3 power control config. REMOVE = CESHL3 remove message. REV MIXED = CESHL3 reverse mixed traffic message. REV VOICE = CESHL3 reverse voice traffic message. RSCHABT = CESHL3 reverse supplemental channel abort. RSCHASN = CESHL3 reverse supplemental channel assign. RSCHREL = CESHL3 reverse supplementary channel release. RSCHREQ = CESHL3 reverse supplementary channel request. RSCHRSP = CESHL3 reverse supplementary channel response. SMVCNTL = CESHL3 selectable mode vocoder control. START DTMF = CESHL3 start continuous DTMF message. STOP DTMF = CESHL3 stop continuous DTMF message. TRANSPORT = CESHL3 RLP measurements transport.
RLP	ACK = RLP acknowledgment message. FILL = RLP3 fill frame message. FIRST SEG = RLP first segmented data message. IDLE = RLP idle message. INV = RLP invalid message. ISFF = RLP intersegment fill message. LAST SEG = RLP last segmented data message. NAK = RLP negative acknowledgment fill message. NULL = RLP3 null message. SACK = RLP3 synchronous acknowledgment message. SECOND SEG = RLP second segmented data message. SEG = RLP3 segmented data message. SYNC = RLP synchronous message.

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	SYNC ACK = RLP synchronous acknowledgment message. UNSEG = RLP unsegmented data message.
ISLP	UI = ISLP unnumbered information frame.

z = Direction (DIR) of frame or packet or message to trigger upon. Valid value(s):
- RCV = Trigger if the frame or packet or message is received by the switch from the CPE. RCV is the default.
- XMT = Trigger if the frame or packet or message is transmitted from the switch to the CPE.

a[1] = Offset (OFF) of the number of frames to be recorded after detection of the trigger event (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Duration (DUR) of the recording session in seconds (default is 3600). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the

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Input Messages manual.

p[1] = Allows the user to optionally specify the type of messages to be recorded when monitoring LAP D protocol on a frame relay bearer channel. User can request specifically to monitor either control messages or user data. However, if user data recording is requested, only a summary of the user data frame will be recorded, due to the sheer volume of the user data. The summary of the user data frame will contain the address information and the length of the actual user data frame transmitted or received. Valid value(s):

CTRL	= Record only control messages. CTRL is the default value.
DATA	= Record only a summary of the transmitted or received user data frame.
ALL	= Record both control messages and a summary of the transmitted or received user data frame.

o[1] = Allows the user to optionally specify the type of messages or frames to be recorded when protocol monitoring is on a speech handler or an *AUTOPLEX®* data trunk. This option can be used with CESHL2 or CESHL3 or RLP protocol. Valid value(s):

CTRL	= Requesting recording of control frames (S and I) for CESHL2 protocol. Default value for CESHL2 protocol at level 2 recording.
TRAF	= Requesting recording of UI traffic messages for CESHL3 protocol.
IP	= Requesting recording of inter-processor messages for CESHL3 protocol. Default value for CESHL3 protocol at level 3 recording.
RLP	= Requesting recording of non-idle RLP frames for RLP protocol. Default value for RLP protocol at level 7 recording.
ALL	= Requesting recording of all messages for CESHL2 or CESHL3 or RLP protocol. This will result in recording S, I, XID, and, UI frames for CESHL2 protocol, or UI plus IP frames for CESHL3 protocol, or RLP plus idle frames for RLP protocol.

q[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`z`[1] = Channel number (CHAN.) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = IP address field. Valid value is number between 0-255.

`e`[2] =Protocol (PROT) level for PCF (Format 3 and Format 4). Valid value(s):
`A10` = Monitor the A10 protocol.
`A11` = Monitor the A11 protocol.

`f`[2] = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

PROTOCOL	TRIGLVL
A10	LEVEL7
A11	LEVEL7

`g`[2] = PCF PM TRIGVAL that terminates the recording session. Valid value(s):

Protocol(s):	Value(s):
`A10`	`A10_UNKNOWN` = A10 unknown frame type. `GRE` = A10 GRE frame.
`A11`	`A11_UNKNOWN` = A11 unknown message type. `REGACK` = A11 acknowledge message. `REGREQ` = A11 request message. `REGRPL` = A11 reply message. `REGUPD` = A11 update message.

`h`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[2] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[2] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[2] = Mobile station identifier. Valid value is a 15 decimal digits number.

`m`[2] = Equipment serial number. Valid value is a number between 0-0xffffffff.

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`n`[2] = Mobile equipment ID. Valid value is a 14 hexadecimal digits number without prefix "H".

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or was not acceptable.

`PF` = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PM output message.

`RL` = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

```
OP:PM
STP:PM
```

Output Message(s):

```
EXC:PM
OP:PM
STP:PM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-220 *Corrective Maintenance*
235-190-104 *ISDN Feature Descriptions*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*
235-600-755 *Protocol Error Record Descriptions*
235-900-341 *National ISDN Basic Rate Interface Specification*

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EXC:PMCCS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a protocol monitoring session be started for the ISUP, BICC, or TCAP protocol based on the values of particular parameters within the message.

The monitoring function records messages transmitted or received for the requested protocol. The messages recorded are those surrounding a particular specified ISUP or BICC call or TCAP transaction.

A request to monitor ISUP/BICC calls will cause a protocol monitoring (PM) session to be started on each operational SM. PM will screen messages in the SMs until the first message matching the input criteria is captured. Once the first message is captured on a particular SM, that SM is the recording processor and screening will terminate in the other SMs. The first message captured will be the initial address message (IAM). Recording will terminate when a release complete (RLC), group reset acknowledge (GRA), or unknown circuit identification code (UCIC) message is captured.

A request to monitor TCAP transactions will cause a PM session to be started on each operational SM and the DLN (or AM if no DLN) is equipped. PM will screen messages in the SMs, DLN or AM until the first message matching the input criteria is captured. Once the first message is captured on a particular processor, that processor is the recording processor and screening will terminate in the other processors. TCAP transactions using the CNI CCS platform will be recorded in the DLN or AM. TCAP transactions using the PSU CCS platform will be recorded in an SM. The TCAP applications supported are:

AINR0D1
ASP
CNAM
ISVM
LASS
NS800

The first message captured will be either a query (QRY) or unidirectional (UNI) message. Recording will terminate when a response (RESP) or abort (ABORT) message is captured.

Depending on the protocol, the PM session will be recorded on either an SM, DLN or AM. The following table indicates which processor records the protocol exchange. Only one PM session is allowed concurrently per protocol (ISUP/BICC or TCAP). The maximum number of sessions which can concurrently record on a given processor are:

- 1 per DLN or AM (TCAP only)
- 2 per office (one ISUP/BICC, one TCAP)
- 2 per SM (one ISUP/BICC, one TCAP)

PROTOCOL	RECORDING PROCESSOR
ISUP/BICC	SM
TCAP	SM, DLN or AM

The default option for PM output is translation to a file. If the translation fails, the information will be reported in hexadecimal format. The file name will be formatted `atf.xxx` where `xxx` corresponds to the session number

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of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

Depending on the call traffic, initiating CCS protocol monitoring my cause an overload condition to occur on the screening or recording processor(s). If an overload condition is detected, PM will be terminated on the overloaded processor(s).

If PM is screening or recording messages in the DLN during a DLN switch, the PM session will be terminated in the DLN. Do not cause a DLN switch during a PM session if the DLN is screening or recording.

Format 1 is specified when a recording session is requested for the ISUP or BICC protocol.

Format 2 is specified when a recording session is requested for the TCAP protocol.

2. FORMAT

```
[1]    EXC:PMCCS,ISUP|BICC,{CALLED=a|CALLING=b}[,DIR=c]. . .
       . . .[,DUR=d][,REPEAT=e][,HEXDUMP];
       ____________________________________________________

[2]    EXC:PMCCS,TCAP,{CALLED=a|CALLING=b}. . .
       . . .,{CDTT=f|CDSN=g|CGSN=h}[,LAYER=i][,DIR=c][,DUR=d]. . .
       . . .[,REPEAT=e][,HEXDUMP];
       ____________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`BICC` = Bearer independent call control protocol.

`HEXDUMP` = Print the output in hexadecimal format on the receive-only printer (ROP).

`ISUP` = Monitor the integrated services digital network (ISDN) user part protocol.

`TCAP` = Monitor the transaction capability application part protocol.

`a` = Called party directory number. [variable length 3-15 digits (no default)]

This value will be used as the matching criteria for the initial message. For the TCAP protocol, the LAYER parameter identifies the location in the message to match this value.

`b` = Calling party directory number. [variable length 3-15 digits (no default)]

This value will be used as the matching criteria for the initial message. For the TCAP protocol, the LAYER parameter identifies the location in the message to match this value. When specifying the CALLING parameter, the LAYER parameter should be set to TCAP. The CALLING party directory number is not available when LAYER is set to SCCP.

For ISUP/BICC, the calling party directory number is an optional parameter in the IAM message; hence, if a calling party directory number is specified as the matching criteria, it may not always result in a message trap.

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c = Direction of the IAM or QRY/UNI message. Valid value(s):
BOTH = Default.
RCV
XMT

The direction only pertains to the first message matching the input criteria. Once the first message has been captured, subsequent matching messages will be captured in either direction.

d = Duration of the monitoring session in seconds. Valid value(s):
For ISUP/BICC = 1-86400 (default is 86400)
For TCAP = 1-3600 (default is 3600)

e = The number of protocol monitoring sessions to be repeated. [1-10 (default is 0)]

f = Called party translation type. [0-255 (no default)]

g = Called party subsystem number. [0-254 (no default)]

Due to protocol monitoring limitations, when CDSN is set to 0, the DIR parameter must be set to XMT. When CDSN is greater than 0, the DIR parameter must be set to RCV. If the DIR parameter is not specified, it will default to the correct direction based on the CDSN specified.

h = Calling party subsystem number. [1-255 (no default)]

i = Location in the message to match the TCAP CALLED or CALLING parameter. Valid value(s):
SCCP = Default.
TCAP

The location specified as SCCP will match the CALLED party number in the SCCP header (CALLING not available in the SCCP header). The location specified as TCAP will match the CALLED or CALLING party number in the TCAP data portion of the message. The LAYER parameter set to TCAP is valid only when the DIR parameter is set to XMT. That is, matching the CALLED/CALLING parameter in TCAP data is only valid for outbound messages.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or was not acceptable.

PF = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PMCCS output message.

5. REFERENCES

Input Message(s):

```
OP:PMCCS
STP:PMCCS
```

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Output Message(s):

```
EXC:PMCCS
OP:PMCCS
STP:PMCCS
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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EXC:PREV

Software Release: 5E15 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Requests that the previous input message entered at this terminal be re-executed. The previous message must have been entered correctly at the same terminal for this request to complete successfully.

2. FORMAT

```
EXC:PREV;
```

3. EXPLANATION OF MESSAGE

No variables.

For further information, refer to the input message manual page for the previously executed message.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `PREVIOUS MESSAGE MUST NOT BE A HELP REQUEST` = The previous message was a help request and cannot be re-executed.
- `SYNTAX ERROR IN PREVIOUS MESSAGE` = The previous message contained a syntax error and cannot be re-executed.

`OK` = Good. The previous message will be executed.

5. REFERENCES

None.

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EXC:RCDECODE

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests the execution of the recent change (RC) or customer originated recent change (CORC) log file decoder. This allows the user to read the RC redundant log file, the RC log file, or CORC log file (Format 1), or read the RC error file (Format 2). This can help in determining what database transactions and CORCs were applied to a module or what transactions or CORCs failed during a roll forward of a module.

2. FORMAT

```
[1]    EXC:RCDECODE,{REDLOG|PARTLOG|CORCLOG},{AM|SM=a|CMP=b}[,OFFSET=c]
       [,LENGTH=d],{ROP|TERM|OUTFILE=e};

[2]    EXC:RCDECODE,ERRLOG,{AM|SM=a|CMP=f-b}[,OFFSET=c][,LENGTH=d],
       {ROP|TERM|OUTFILE=e};
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ERRLOG` = Read the RC log error file.

`PARTLOG` = Read the RC log file.

`REDLOG` = Read the RC log redundant file.

`CORCLOG` = Read the CORC log file.

`ROP` = Print the output of RC decoder on the receive-only printer (ROP).

`TERM` = Print the output of RC decoder back to requesting terminal.

`a` = SM number.

`b` = CMP number.

`c` = The start offset in bytes, from the beginning of the logfile, to read the file. Default is zero (beginning of log file).

`d` = The length, in bytes, of what is to be read. The default is from the start offset to the end of the file.

`e` = Directory and name of file in which output will be placed. All files will be placed in a directory specified or in the directory (/tmp) if no directory is specified. Must be surrounded by quotes (for example, `OUTFILE="/updtmp/filename"`), or just a name of file in which output will be placed (for example, `OUTFILE=filename`). There is a 14-character limit on file names.

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`f` = CM message switch side for the physical CMP error log file. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The RC decoder is executed. Printout will follow, either to the terminal or ROP, depending on option.

`NG` = No good. May also include:

- `Bad Input File` = Invalid input option. The valid option must be one of the followings - REDLOG, PARTLOG, CORCLOG, or ERRLOG.
- `Bad Output File` = Invalid output device. The valid output device must be one of the followings - ROP, TERM, or an output file name.
- `Cannot open output file` = Cannot open the specified output file. Make sure that the output file directory has write permission.
- `Cannot open input file` = Cannot open the specified input file. This shows that either the processor specified is not equipped or no log file existed for that processor.

5. REFERENCES

Input Message(s):

```
EXC:ODDRCVY
```

Output Message(s):

```
REPT:RCDECODE
EXC:ODDRCVY
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-250 *System Recovery*

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EXC:RCRLS

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that all recent changes (RCs) previously entered into the delayed release clerk file(s) be released.

2. FORMAT

```
EXC:RCRLS,{CLERK=a[,VERBOSE]|ODDEVOL[,CONCURRENT|,NONCON|,
SKIPERR]};
```

3. EXPLANATION OF MESSAGE

`CONCURRENT` = Divide the evolved RC file into multiple release clerk files and proceed on all files simultaneously.

`NONCON` = Release RCs in single stream (non-concurrent).

`ODDEVOL` = Release the evolved RC file.

`SKIPERR` = Skip over the failed RCs. Use this option ONLY if the releasing of the evolved RC file was stopped because a BKUP:ODD was necessary and it was necessary to reduce the retrofit time interval. The user must release this file again during the "END STAGE" in the "RC reapplication cleanup phase". Directions for this are given in Software Release Retrofit manual.

`VERBOSE` = Turn on one-line logging message of recent changes (RCs) on the receive-only printer (ROP) for the current session only. The default is no logging.

The one-line logging message has the following format:

```
RC BATCH SUCCESS|ERROR RC/V-Form-Name RC-Operation Key(s)
TERM-ID=terminal-name CLERK=clerk-name
```

`a` = Clerk name entered on the request. Maximum length is eight ASCII characters. (Do not use blanks or special characters.)

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. Followed by the EXC:RCRLS output message.

5. REFERENCES

Input Message(s):

`OP:RCRLS`

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```
STP:RCRLS
```

Output Message(s):

```
EXC:RCRLS
OP:RCRLS
RC:BATCH-TERM
RC:INHIBITED
STP:RCRLS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-105-24x *Software Release Retrofit Procedures*

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EXC:RCRMV

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Removes selected recent changes previously entered into the delayed release clerk file.

2. FORMAT

```
EXC:RCRMV,CLERK=a[,ALL][,PENDING][,COMPLETE][,ERROR][,DEMAND][,TIME=b-b];
```

3. EXPLANATION OF MESSAGE

NOTE: The defaults for selection parameters are COMPLETE and ERROR. These are set when none of the following selection parameters are specified.

`ALL` = Remove all recent changes. Recent changes selected could be pending, completed, error, or demand.

`COMPLETE` = Remove released recent changes that were successfully completed.

`DEMAND` = Remove demand recent changes.

`ERROR` = Remove recent changes released with error.

`PENDING` = Remove pending recent changes.

`a` = Clerkname entered on request.

`b` = The range of times between which records are selected. The time fields are specified in month, day, year, hour, and minute, format with no separators. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Leading zeros must be specified. The first time field must specify a time earlier than the second time field. Thus, choosing 0101000000 as the first time field and 1231992300 as the second time field would select all records and this range of time (selecting all records) is the default when no time is specified.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. Followed by the EXC:RCRMV output message.

5. REFERENCES

Input Message(s):

`STP:RCRMV`

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Output Message(s):

```
EXC:RCRMV
OP:RCRMV
STP:RCRMV
```

Input Appendix(es):

```
APP:RANGES
```

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EXC:RDTA-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a remote digital test access (RDTA) connection be set up between the port to be tested and the output facility where the protocol analysis equipment is located. The port under test (PUT) may be a channel on an integrated services digital network (ISDN) basic rate interface (BRI), a channel on an ISDN primary rate interface (PRI), or a trunk using the ISDN protocols such as: IP, XAT, X.75, X.75', and CCS7 ISUP. The two types of output facilities (connections to analysis equipment) are the PRI and pseudo BRI ports. A pseudo BRI is a digital subscriber line (DSL) in which none of its channels are connected to the protocol handler (PH). There are basically two types of RDTA connections that can be set up:

Monitor = This type allows a copy of the receive and transmit data passing over the circuit being tested to be received by the protocol analysis equipment. This is a "hitless" (non-interfering) type of connection. This type of connection includes only the monitor (MON) connection mode.

Interactive = This type allows exchange of data between the PUT and the protocol analysis equipment. This type of connection includes the direct test access connection (DTAC) and all splits such as duplex split (SPLIT), simplex split PH side (SPLITPH), and simplex split PUT side (SPLITPUT).

An RDTA session will be assigned a session number and a duration timer DUR (default is 1 day). At any time during the duration interval, the user may reset the timer by typing a UPD:RDTA message for that active RDTA session. If a session is set up for a period longer than 24-hours, a UPD:RDTA reminder message will print every 24 hours to indicate that the RDTA session is active. Thirty minutes before the termination interval specified on the EXC:RDTA input message, a UPD:RDTA warning message will print to indicate that the RDTA session will be terminated in 30 minutes. The user may keep the active RDTA session alive by responding with a UPD:RDTA input message.

Restrictions apply to certain mode and port type combinations. No split or DTAC may be requested on a BRI port; only a MON may be performed on a BRI. Furthermore, a SPLITPH may not be performed on a circuit-switched trunk; it may only be performed on PRI and packet D-channel connections.

The UCL option is required for all requests to SPLIT, SPLITPH, or SPLITPUT a PRI D-channel. The UCL option is on the PRI B-channels associated with the D-channel. A PRI provisioned with D-channel Backup (DCBU) has two D-channels. An EXC:RDTA session can be requested for one of the two D-channels only. Requesting an EXC:RDTA session on the mate D-channel causes the other EXC:RDTA session to terminate. Before invoking an EXC:RDTA session on the selected D-channel on a PRI with DCBU, the selected D-channel should be in-service (IS) or out-of-service (OOS) blocked for automatic reasons (OOS-BLKD-AUTO), and the mate D-channel must be manually removed(OOS-MTCE-DSBLD). The manual removal of the mate D-channel ensures that the D-channel that the SPLIT, SPLITPH, or SPLITPUT connection is requested for ends up being the D-channel that supports the exchange of protocol traffic.

An RDTA monitor connection may be converted to an interactive split connection. The input data request to split a monitor must match that of the monitor connection to assure the integrity of the request. The option is provided so the user may omit the output facility directory numbers (DN), incoming DN (INDN) and outgoing DN (OUTDN), when inputing format 1. In this case, the appropriate DN(s) will be retained in accordance with the requested split. When the conversion is made the duration timer will be reset but all other information will stay intact, including the session number.

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Format 1 is used to set up a new RDTA session or to convert a monitor connection to a split connection. INDN and OUTDN may be omitted when converting a monitor to a split; however, if either is entered, the entries must match that of the existing monitor. INDN and OUTDN are required to begin a MON or SPLIT. INDN is required to start the DTAC and SPLITPUT connections and OUTDN is required to start the SPLITPH connection.

Format 2 must be used after a format one request when successfully monitoring a BRI D-channel on output facilities located on a different switch from the RDTA session itself. It must be sent to the switch where the output facility DN(s) are located and must be executed (when doing remote access) in order to obtain the data being monitored. The function of this format is to select the quarter section of a 64 kb time-slot for placement onto the pseudo BRI D-channel output facility. The quarter time-slot input to this format for a particular session is given in the EXC:RDTA output message or may be found by using the OP:RDTA input message. For a BRI D-channel, if the output facility is on the same switch as the BRI under test, the quarter time-slot on the output facility will be set up correctly.

2. FORMAT

[1] EXC:RDTA,a[,CH=u][,DAS=v][,INDN=w][,OUTDN=x],MODE=y[,UCL]
[,DUR=a^1][,BDN=b^1][,CUSTID=c^1];

[2] EXC:RDTA,INDN=w,OUTDN=x,QTS=z;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

UCL = Set up split connection unconditionally. The UCL option applies to connection modes SPLIT, SPLITPH, and SPLITPUT. It will be ignored for all other connection modes. If the PUT is a PRI D-channel or packet trunk all active calls will be torn down prior to setting up the split connection. The UCL option is required to set up a split connection on a circuit switch PUT. The UCL option is also required to set up a split connection on a PRI D-channel.

a = Port identification. Valid value(s):

AIUEN=d-l-d^1-e^1

BST=b-c

DEN=d-e-f-g

DN=h

ILEN=d-i-j-k

INEN=d-f^1-j-k

LCEN=d-l-m-n

LCKEN=d-l-m^1-d^1-e^1

MLHG=o-p

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NEN=d-f[1]-g[1]-h[1]-i[1]-j[1]-k[1]-l[1]

OAPO=b

OPT=b-c

PKTDN=h

PLTEN=d-n[1]-o[1]-p[1]-q[1]

RTRS=q-r

TKGMN=s-t

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B.

h = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with DSLs.

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`o` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):

- `B1` = B1-Channel.
- `B2` = B2-Channel.
- `D` = D-Channel (default).

`v` = Digit analysis selector (DAS) (routing domain) to be used to specify the correct set of digit analysis tables to translate INDN and OUTDN. This parameter will override the office's default DAS for RDTA. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = DN of the output facility where the protocol analyzer accesses the test data sent over the PUT to the switch. This direction is known as incoming. Data sent from the analysis equipment for interaction with the PUT will therefore originate from INDN for all interactive mode connections, except the SPLITPH connection.

`x` = DN number of the output facility where the protocol analyzer accesses the test data sent from the switch to the PUT. This direction is known as outgoing. Data sent from the analysis equipment for interaction with the switch will originate from OUTDN for the SPLIT and SPLITPH connections.

`y` = Connection mode of the RDTA session. Valid value(s):

- `DTAC` = Direct test access connection (DTAC). This is an interactive connection on a port that does not have a path set up on it. The port under test (PUT) is seized and directly connected to a outgoing port terminating at the protocol analysis equipment.
- `MON` = Monitor. This is a receive-only connection on a busy circuit. A copy of the receive and transmit data being passed over the PUT is transmitted to two individual outgoing ports that terminate at the protocol analysis equipment.

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SPLIT = Duplex split. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and each half is connected to an outgoing port terminated at the protocol analysis equipment. This allows interactive testing of both sides of the original path.

SPLITPH = Simplex split protocol handler (PH) side. This is an interactive connection on a ISDN channel nailed-up to a PH. The existing path on the ISDN channel is torn down and the PH associated with the channel being tested is directly connected to an outgoing port terminating to the protocol analysis equipment.

SPLITPUT = Simplex split PUT side. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and the PUT is directly connected to an outgoing port terminating to the protocol analysis equipment.

z = The quarter time-slot (QTS) (16 kb/s section) of a 64 kb/s unrestricted channel. This output facility pseudo BRI D-channel quarter time-slot corresponds to the quarter time-slot carrying the BRI D-channel data, the PUT data, to the PH.

a[1] = The maximum duration of the RDTA session. The duration timer default is 1 day.

b[1] = The billing directory number that will be passed through the network when routing to the output facilities located in another LATA.

c[1] = The customer identification will identify a leased network customer. Specifying a CUSTID of nonzero value will cause automatic route selection (ARS) routing to be invoked for the leased network. The CUSTID parameter should only be specified when the INDN and/or OUTDN directory numbers will route to output facilities located on a different switch from the RDTA session itself. The CUSTID is required when routing over CCS7 ISUP IMTs (intermachine trunks).

d[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

e[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

f[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

g[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

h[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

i[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

j[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

k[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages Manual.

`l`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`m`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`n`[1] = Peripheral Control and Timing (PCT) Line and Trunk Unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`o`[1] = PCT Facility Interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`p`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`q`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the EXC:RDTA output message.

`RL` = Retry later. May also include:

- `FAILED TO CREATE PROCESS` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `TOO MANY PROCESSES ACTIVE` = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

Output Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-190-104 *ISDN Feature Description*
235-900-341 *National ISDN Basic Rate Interface Specification*

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EXC:RDTA-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a remote digital test access (RDTA) connection be set up between the port to be tested and the output facility where the protocol analysis equipment is located. The port under test (PUT) may be a channel on an integrated services digital network (ISDN) basic rate interface (BRI), a channel on an ISDN primary rate interface (PRI), or a trunk using the ISDN protocols such as: IP, XAT, X.75, X.75', and CCS7 ISUP. The two types of output facilities (connections to analysis equipment) are the PRI and pseudo BRI ports. A pseudo BRI is a digital subscriber line (DSL) in which none of its channels are connected to the protocol handler (PH). There are basically two types of RDTA connections that can be set up:

Interactive = This type allows exchange of data between the PUT and the protocol analysis equipment. This type of connection includes the direct test access connection (DTAC) and all splits such as duplex split (SPLIT), simplex split PH side (SPLITPH), and simplex split PUT side (SPLITPUT).

Monitor = This type allows a copy of the receive and transmit data passing over the circuit being tested to be received by the protocol analysis equipment. This is a "hitless" (non-interfering) type of connection. This type of connection includes only the monitor (MON) connection mode.

An RDTA session will be assigned a session number and a duration timer DUR (default is 1 day). At any time during the duration interval, the user may reset the timer by typing a UPD:RDTA message for that active RDTA session. If a session is set up for a period longer than 24-hours, a UPD:RDTA reminder message will print every 24 hours to indicate that the RDTA session is active. Thirty minutes before the termination interval specified on the EXC:RDTA input message, a UPD:RDTA warning message will print to indicate that the RDTA session will be terminated in 30 minutes. The user may keep the active RDTA session alive by responding with a UPD:RDTA input message.

Restrictions apply to certain mode and port type combinations. No split or DTAC may be requested on a BRI port; only a MON may be performed on a BRI. Furthermore, a SPLITPH may not be performed on a circuit-switched trunk; it may only be performed on PRI and packet D-channel connections.

The UCL option is required for all requests to SPLIT, SPLITPH, or SPLITPUT a PRI D-channel. The UCL option is on the PRI B-channels associated with the D-channel. A PRI provisioned with D-channel Backup (DCBU) has two D-channels. An EXC:RDTA session can be requested for one of the two D-channels only. Requesting an EXC:RDTA session on the mate D-channel causes the other EXC:RDTA session to terminate. Before invoking an EXC:RDTA session on the selected D-channel on a PRI with DCBU, the selected D-channel should be in-service (IS) or out-of-service (OOS) blocked for automatic reasons (OOS-BLKD-AUTO), and the mate D-channel must be manually removed (OOS-MTCE-DSBLD). The manual removal of the mate D-channel ensures that the D-channel that the SPLIT, SPLITPH, or SPLITPUT connection is requested for ends up being the D-channel that supports the exchange of protocol traffic.

An RDTA monitor connection may be converted to an interactive split connection. The input data request to split a monitor must match that of the monitor connection to assure the integrity of the request. The option is provided so the user may omit the output facility directory numbers (DN), incoming DN (INDN) and outgoing DN (OUTDN), when inputing format 1. In this case, the appropriate DN(s) will be retained in accordance with the requested split. When the conversion is made the duration timer will be reset but all other information will stay intact, including the session number.

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Format 1 is used to set up a new RDTA session or to convert a monitor connection to a split connection. INDN and OUTDN may be omitted when converting a monitor to a split; however, if either is entered, the entries must match that of the existing monitor. INDN and OUTDN are required to begin a MON or SPLIT. INDN is required to start the DTAC and SPLITPUT connections and OUTDN is required to start the SPLITPH connection.

Format 2 must be used after a format one request when successfully monitoring a BRI D-channel on output facilities located on a different switch from the RDTA session itself. It must be sent to the switch where the output facility DN(s) are located and must be executed (when doing remote access) in order to obtain the data being monitored. The function of this format is to select the quarter section of a 64 kb time-slot for placement onto the pseudo BRI D-channel output facility. The quarter time-slot input to this format for a particular session is given in the EXC:RDTA output message or may be found by using the OP:RDTA input message. For a BRI D-channel, if the output facility is on the same switch as the BRI under test, the quarter time-slot on the output facility will be set up correctly.

2. FORMAT

[1] EXC:RDTA,a[,CH=u][,DAS=v][,INDN=w][,OUTDN=x],MODE=y[,UCL]
[,DUR=a^1][,BDN=b^1][,CUSTID=c^1];

[2] EXC:RDTA,INDN=w,OUTDN=x,QTS=z;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

UCL = Set up split connection unconditionally. The UCL option applies to connection modes SPLIT, SPLITPH, and SPLITPUT. It will be ignored for all other connection modes. If the PUT is a PRI D-channel or packet trunk all active calls will be torn down prior to setting up the split connection. The UCL option is required to set up a split connection on a circuit switch PUT. The UCL option is also required to set up a split connection on a PRI D-channel.

a = Port identification. Valid value(s):

AIUEN=d-l-d^1-e^1

BST=b-c

DEN=d-e-f-g

DN=h

ILEN=d-i-j-k

INEN=d-f^1-j-k

LCEN=d-l-m-n

LCKEN=d-l-m^1-d^1-e^1

MLHG=o-p

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NEN=d-f[1]-g[1]-h[1]-i[1]-j[1]-k[1]-l[1]

OAPO=b

OPT=b-c

PKTDN=h

PLTEN=d-n[1]-o[1]-p[1]-q[1]

RTRS=q-r

TKGMN=s-t

OIUEN=d-r[1]-s[1]-h[1]-i[1]-j[1]-k[1]-l[1]

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B.

h = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with DSLs.

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):

- B1 = B1-Channel.
- B2 = B2-Channel.
- D = D-Channel (default).

v = Digit analysis selector (DAS) (routing domain) to be used to specify the correct set of digit analysis tables to translate INDN and OUTDN. This parameter will override the office's default DAS for RDTA. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = DN of the output facility where the protocol analyzer accesses the test data sent over the PUT to the switch. This direction is known as incoming. Data sent from the analysis equipment for interaction with the PUT will therefore originate from INDN for all interactive mode connections, except the SPLITPH connection.

x = DN number of the output facility where the protocol analyzer accesses the test data sent from the switch to the PUT. This direction is known as outgoing. Data sent from the analysis equipment for interaction with the switch will originate from OUTDN for the SPLIT and SPLITPH connections.

y = Connection mode of the RDTA session. Valid value(s):

- DTAC = Direct test access connection (DTAC). This is an interactive connection on a port that does not have a path set up on it. The port under test (PUT) is seized and directly connected to a outgoing port terminating at the protocol analysis equipment.
- MON = Monitor. This is a receive-only connection on a busy circuit. A copy of the receive and transmit data being passed over the PUT is transmitted to two individual outgoing ports that terminate at the protocol analysis equipment.
- SPLIT = Duplex split. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and each half is connected to an outgoing port terminated at the protocol analysis equipment. This allows interactive testing

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of both sides of the original path.

`SPLITPH` = Simplex split protocol handler (PH) side. This is an interactive connection on a ISDN channel nailed-up to a PH. The existing path on the ISDN channel is torn down and the PH associated with the channel being tested is directly connected to an outgoing port terminating to the protocol analysis equipment.

`SPLITPUT` = Simplex split PUT side. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and the PUT is directly connected to an outgoing port terminating to the protocol analysis equipment.

`z` = The quarter time-slot (QTS) (16 kb/s section) of a 64 kb/s unrestricted channel. This output facility pseudo BRI D-channel quarter time-slot corresponds to the quarter time-slot carrying the BRI D-channel data, the PUT data, to the PH.

`a`[1] = The maximum duration of the RDTA session. The duration timer default is 1 day.

`b`[1] = The billing directory number that will be passed through the network when routing to the output facilities located in another LATA.

`c`[1] = The customer identification will identify a leased network customer. Specifying a CUSTID of nonzero value will cause automatic route selection (ARS) routing to be invoked for the leased network. The CUSTID parameter should only be specified when the INDN and/or OUTDN directory numbers will route to output facilities located on a different switch from the RDTA session itself. The CUSTID is required when routing over CCS7 ISUP IMTs (intermachine trunks).

`d`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`e`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`f`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`g`[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`h`[1] = SONET termination equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`i`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`j`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`k`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`l`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

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m[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

n[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

o[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

p[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

q[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

r[1] = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

s[1] = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the EXC:RDTA output message.

RL = Retry later. May also include:
- FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

Output Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-190-104 *ISDN Feature Description*
235-900-341 *National ISDN Basic Rate Interface Specification*

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EXC:REMACS

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that control operations be performed on the remote access subsystem (REMACS) data audit, or requests the status of that subsystem.

2. FORMAT

```
EXC:REMACS:{INH|ALW|STATUS|CYCLE=a|FREQ=b};
```

3. EXPLANATION OF MESSAGE

`ALW` = Allow the running of the REMACS data audit. This is the default state of the REMACS data audit.

`INH` = Inhibit the running of the REMACS data audit and abort any previous requested cycle(s) that may be running. This inhibit will remain in effect as long as common network interface (CNI) does not perform a level 4 initialization. Once this occurs the inhibit will have to be entered again.

`STATUS` = Display the current status of the REMACS data audit; if the audit is running or is cycling, the current frequency of invocation is also displayed. If the audit is cycling the current cycle count will be displayed.

`a` = Number of cycles to be run. The audit must already be inhibited and currently not cycling for this input message to be honored by REMACS.

`b` = Frequency of invocation. Each time REMACS is invoked, REMACS runs the data audit on a portion of REMACS data; this input message modifies the frequency of data audit invocation each time REMACS itself is invoked. For example if REMACS is invoked every 200 milliseconds and the data audit frequency of invocation is 3, then the data audit will be run once every 600 milliseconds. The data audit frequency of invocation is initially set to 1 (data audit invoked each time REMACS itself is invoked).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EXC:REMACS output message.

5. REFERENCES

Output Message(s):

```
EXC:REMACS
REMACS:AUD-ERR
```

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Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*
235-600-400 *Audits*

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EXC:REORG

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Runs the reorganization of the database relations immediately. This does not change the automatic run time set by the SET:REORG input message.

NOTE: If this message is requested while automatic relation reorganization has been manually inhibited with the INH:REORG input message, reorganization of data base relations will not be done. Automatic relation reorganization can be allowed with the ALW:REORG input message.

2. FORMAT

```
EXC:REORG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the REPT:REORG output message.

5. REFERENCES

Input Message(s):

```
ALW:REORG
INH:REORG
SET:REORG
```

Output Message(s):

```
REPT:REORG
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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EXC:REX-CM-SM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests routine exercises (REX) of the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs be executed. The demand mode or the verbose mode can be specified.

Format 1 describes the SM message syntax, and Format 2 describes the CM message syntax.

WARNING: This message may result in severe traffic interruption if the DEMAND option is used.

2. FORMAT

```
[1]    EXC:REX,SM=a[&&b][,c][,RPT=d][,VERBOSE][,DEMAND];

[2]    EXC:REX,CM,e[,VERBOSE];
```

3. EXPLANATION OF MESSAGE

`DEMAND` = Start the REX in the demand mode. Default is the non-demand mode. Do not use the DEMAND option if the SM is cut-over and taking live traffic, as this results in severe traffic interruption. The DEMAND option is specified only when the SM is in the pre-cut state (that is, not in operation and taking no live traffic.) This mode is provided to test the circuits that are not tested in normal mode because, when they are taken out of service for test, the subtending trunks are also taken out of service. The demand-only phases of the circuit diagnostics are also run during this mode.

`VERBOSE` = Print each unit completion message on the receive-only printer (ROP) and on the terminal that requested it. (Default is not to print the completion message for each unit, but still print failures for each unit on the ROP.)

`a` = Number of the SM on which REX is to start running, or the lower limit of a range of SM numbers.

`b` = Upper limit on a range of SM numbers.

`c` = REX test type to be executed (default is to execute all three test types). Valid value(s):

- `DGN` = Execute the summary of diagnostic tests.
- `ELS` = Execute the summary of electronic loop segregation tests.
- `FAB` = Execute the summary of fabric exerciser tests of grids.

`d` = Repeat times when installation mode is on (default is 1). Valid value(s):

- `0` = Repeat forever.

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`1-7` = Repeat number.

`e` = REX test type to be executed. Valid value(s):
`DGN` = Execute the summary of diagnostic tests.
`SWITCH` = Switch the CM hardware states only.

NOTE: If neither CM nor SM is specified, the hardware will be tested in the CM and all of the operational SMs.

4. SYSTEM RESPONSE

`NG` = No good. The request was not a valid entry.

`PF` = Printout follows. Request is valid and is followed by the EXC:REX output message. However, dependent on equipment and traffic loads, REX may not start for 2-10 minutes, at which time it will print its start message. Refer to the EXC:REX output message. Any status input messages relating to REX will not indicate REX starting until this time.

`RL` = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
RCV:M-IREX
STP:REX-CM-SM
```

Output Message(s):

```
EXC:REX
```

Other Manual(s):
235-100-125 *System Description*

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EXC:RG1AUD

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Provides the ability to exercise operations in the stand-by ring (ring1) on demand. Allows for the possible detection of ring one problems prior to it affecting the performance of the transport system.

WARNING: Use of the UCL option, which permits the ring 1 audit to run on a ring with an isolated segment, could affect ring operation due to the increased message load, and should be used ONLY when instructed by support personnel.

2. FORMAT

```
EXC:RG1AUD[:[RATE=a][,DUR=b][,APAT=c|UPAT=d][:UCL]]
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditional request. Will enable the execution of the ring 1 audit even if node isolation exists.

`a` = Declares rate at which ring 1 messages will be transmitted. Valid value(s):

`LOW` (Default)
`MED`
`HIGH`

`b` = Declares the duration in minutes the ring 1 audit will execute. Range is 1 - 480. Default value is 10.

`c` = Declares the test pattern to be repeated in the ring 1 audit message. Valid value(s):

`AUD1` (Default)
`AUD2`
`AUD3`

`d` = Declares a user-defined test pattern to be repeated in the ring 1 audit message. For example: H'1234ABCD This parameter is of type long.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EXC:RG1AUD output message. The REPT RG1AUD output message will be the output at the end of the duration (1 - 480 minutes) of the audit if the

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audit is successful. Refer to the EXC:RG1AUD output message for additional information.

5. REFERENCES

IM/OM References:

None.

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EXC:RT-PROV

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the provisioning of a TR303 remote terminal (RT) on an Integrated Digital Carrier Unit (IDCU) or Digital Network Unit SONET (DNU-S).

2. FORMAT

```
[1]    EXC:RT,PROV,LINE,{ILEN|INEN}=c-d-e-f;

[2]    EXC:RT,PROV,{ALL|GLOBAL|IFAC|DS1SFAC},
           {SID=b|{IDCURT|DNUSRT}=c-d-e};
```

3. EXPLANATION OF MESSAGE

`a` Type of provisioning request. Valid Value(s):

`LINE`	= Provision an analog or digital line. IDCU or DNU-S line equipment number (ILEN/INEN) must accompany this request type.
`ALL`	= Provision all data on an RT.
`GLOBAL`	= Provision global data on an RT.
`IFAC`	= Provision an IDCURT digital signal level 1 (DS1) facility.
`DS1SFAC`	= Provision a DNUSRT digital signal level 1 (DS1) facility.

`b` = Site identification (SID) number of the RT. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Local RT (LRT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the EXC:RT-PROV output message.

`NG` = No good. May also include:

- `NO TR303 RT FOUND` = The request has been denied. The message is valid, but the specified RT is not a TR303 RT.

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– `UNIT DOES NOT EXIST` = The request has been denied. The message is valid, but the requested RT does not exist in the database.

`RL` = Retry later. May also include:
– `CANNOT CREATE TERMINAL PROCESS` = The request cannot be executed now due to unavailable system resources for creating a terminal process.

5. REFERENCES

Input Message(s):

```
OP:RT-PROV
```

Output Message(s):

```
EXC:RT-PROV
OP:RT-PROV
REPT:RT-PROV
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:RTRACK

Software Release: 5E15 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

2. FORMAT

```
EXC:RTRACK[,a];
```

3. EXPLANATION OF MESSAGE

`a` = The ring peripheral controller node (RPCN) or link node (LN) to be isolated. Valid value(s):

```
RPCNb=0
LNx=c
```

`b` = A ring node group number with explicit leading zero for group numbers less than 10. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The node's position in the ring node group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. The request was not accepted; reason will follow.

`PF` = Printout follows. Followed by the EXC:RTRACK output message. If accepted, ring tracker begins iteratively isolating one node at a time until a stable ring configuration is found. If a node was specified with the input message, Ring Tracker begins isolation with that node.

Once the ring tracker mode is entered, a REPT:RING-CFR output message is output once every 15 minutes for as long as ring tracker is active.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
ALW:RTRACK
INH:RTRACK
OP:RTRACK
STOP:RTRACK
```

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Output Message(s):

```
ALW:RTRACK
EXC:RTRACK
INH:RTRACK
OP:RTRACK
REPT:RING-CFR
STOP:RTRACK
```

Input Appendix(es):

```
APP:RANGES
```

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EXC:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Activates an observation scope for all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation CCSMTCE messages.

All selected blocking, reset, unblocking, continuity, circuit query, and circuit validation messages for trunks assigned to the specified origination point code (OPC), destination point code (DPC), and optional circuit identification code (CIC) would be reported. This input message has no affect if the ALW:S7RPT input message has not been entered. It is used with SET:S7RPT to start viewing CCSMTCE messages. Requesting this message may cause large amounts of data to be printed on the ROP. By request, the output message generated by this input message can be saved in a daily log file.

WARNING: Should system operation be impacted by this message:

- The input message STP:S7RPT, can be used to halt observation on a specific scope.
- The input message SET:S7RPT, can be used to halt observation on a specific type.
- The input message INH:S7RPT, can be used to halt observation on all scopes and turn off the ALW:S7RPT input message.

2. FORMAT

```
EXC:S7RPT,OPC=a,DPC=b[,CIC=c];
```

3. EXPLANATION OF MESSAGE

`a` = Origination point code (OPC).

`b` = Destination point code (DPC).

`c` = Circuit identification code (CIC).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `FEATURE NOT AVAILABLE` = The input message cannot be used in this office. The office should be upgraded.

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- S7RPT NOT ALLOWED = The ALW:S7RPT input message must be issued for SET:S7RPT input message to have any affect.
- HARDWARE NOT OPERATIONAL = The office does not have SS7 trunks.
- PARAMETER COMBINATION ERROR = The input message parameter combination is wrong.
- OBSERVATION SCOPE CONFLICT = Entered different scope than the active one.
- OBSERVATION SCOPE LIMIT REACHED = Two OPC,DPC or OPC,DPC,CIC observation scopes are already active.

PF = Printout follows. Followed by the EXC:S7RPT Output Messages message.

5. REFERENCES

Input Message(s):

```
ALW:S7RPT
INH:S7RPT
STP:S7RPT
OP:S7RPT
```

Output Message(s):

```
EXC:S7RPT
```

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EXC:S7XCHK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Execute a demand cross check (S7XCHK) request. These requests locate and optionally correct inconsistencies between AMPCI7GR/GMPCI7GR and PCI7GR.

Inconsistencies are only reported by default, but can be corrected by using the CORRECT=Y option.

WARNING: When CNI-PSU Conversion is running, no S7XCHK request can be run.

Only one S7XCHK request can be run at a time.

Format 1 is used to initiate a cross check process on every provisioned SM in the office.

Format 2 is used to initiate a cross check process on a specified SM or range of SMs.

2. FORMAT

```
[1]    EXC:S7XCHK,OFFICE[,TYPE=a][,CORRECT=d];
       ___________________________________________________________

[2]    EXC:S7XCHK,SM=b[&&c][TYPE=a][,CORRECT=d];
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Type of cross check requested. Valid value(s):
`PCI7GR` = PCI7GR cross check.

`b` = Switching module.

`c` = Optional end of range of switching modules.

`d` = Correction status indicator. Valid value(s):
`N` = Only report inconsistent tuples.
`Y` = Correct inconsistent tuples.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. May also include:
`- CNI2PSU CONVERSION IN PROGRESS` = Conversion is in progress, therefore no cross

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checks can be requested.
- `SM DOES NOT EXIST` = The switching module requested does not exist in the office.

`PF` = Printout follows. The request has been accepted. Followed by the EXC:S7XCHK output message.

`RL` = Retry later. May also include:
- `PCI7GR CROSS CHECK IN PROGRESS` = A cross check request can only execute if no other S7XCHK requests are running.

5. REFERENCES

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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EXC:SCHED

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a routine exercise (REX) and/or automatic line insulation test (ALIT) schedule be generated based on the equipment present. Optionally updates recent change and verify (RC/V) views 8.1 and 8.3.

2. FORMAT

```
[1]    EXC:SCHED:REX[,RDAYS=a[-a...]][,RSTART=bbbb][,RDUR=c][,UPD];

[2]    EXC:SCHED:ALIT[,AEND=dddd][,ADUR=e][,UPD];

[3]    EXC:SCHED:ALL[,RDAYS=a[-a...]][,RSTART=bbbb][,RDUR=c][,AEND=dddd]
       [,ADUR=e][,UPD];
```

3. EXPLANATION OF MESSAGE

`ALL` = Generate both REX and ALIT schedules.

`UPD` = Update the office-dependent data (ODD) relating to REX and/or ALIT, using RC/V views 8.1 (OFFICE PARAMETERS (MISCELLANEOUS)) and 8.3 (ROUTINE EXERCISE SCHEDULE). Make sure that RC/V is not inhibited. Otherwise, no update action will be taken. If ODD update completed successfully, multiple '`REPT:RCV APPTEXT COMPLETED...`' messages will be displayed on the terminal screen.

`a` = Days in which REX is allowed to be scheduled. Legal values range from 1 (Monday) through 7 (Sunday). Thus, RDAYS=1-3-5 would restrict REX to run only on Monday, Wednesday and Friday. RDAYS=1-2-3-4-5 would indicate that REX should run on weekdays only. Default is to schedule REX for all seven days of the week (same as RDAYS=1-2-3-4-5-6-7).

`b` = REX start time given in 24-hour format (for example, 0130 = 1:30 AM). Default is REX starts at midnight.

`c` = Number of hours (integer values only) that REX is to be run daily (default is 6). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ALIT end time given in 24-hour format (for example, 0130 = 1:30 AM). Default is ALIT ends at midnight.

`e` = Number of hours (integer values only) that ALIT is to run daily. (Default=5 or the time required to test all lines, whichever is shorter.)

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. Followed by the REPT:SCHED output message.

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NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

5. REFERENCES

Input Message(s):

```
ALW:RC
INH:RC
```

Output Message(s):

```
REPT:SCHED
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
8.3 (ROUTINE EXERCISE SCHEDULE)

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EXC:SODD-RED-OP

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Displays the relation currently being audited by the redundant static office dependent data (SODD) audit (invoked by EXC:SODD,RED). The message returned is: "EXC SODD RED IN PROGRESS REL <relation name>". Relations are audited in the order determined by the relation ID which is a numeric identifier.

2. FORMAT

```
EXC:SODD:RED:OP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows.

`RL` = Retry later. The request cannot be accepted now. Cannot signal the audit when it is not currently running.

Refer to the User Guidelines section of the Input Messages manual for additional system responses.

5. REFERENCES

Input Message(s):

```
EXC:SODD-RED
EXC:SODD-STP
```

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EXC:SODD-RED

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests an audit of the redundant (RED) relations to check for split translations in the static office-dependent data (SODD). Redundant relations are relations that are supposed to be exactly the same in more than one processor, the set of processors being determined by the relation distribution type. These relations include most of the routing, charging and digit analysis translations.

The redundant static data audit checks redundant relations, which have the distribution type of LR, FR, LRFR, or LPFR. This audit detects any corrupt tuples (tuples with the same key with different contents), extra tuples and missing tuples. All detected errors are printed to the output file. The following is a description of the distribution types:

Logical redundant (LR) = Redundant relations that should be the same in the communications module processor (CMP) and the administrative module (AM).

Fixed redundant (FR) = Redundant relations that should be the same in all the switching modules (SMs).

Logical redundant fixed redundant (LRFR) = Redundant relations that should be the same in the CMP, the AM, and all the SMs.

Logical processor fixed redundant (LPFR) = Relations that should be the same in either the CMP or AM, depending on the application, and all the SMs.

The audit works by calculating the checksum of the relation for each of the processors the relation is on. It groups the processors according to their checksums for the relation. All processors returning the same checksum are grouped together. If the relation checksum for each of the processors is the same, the relation is assumed to be free of errors. Otherwise, the master processor is taken from the group with the largest number of processors. The remaining groups are the "suspect" groups. Note that a master processor and a suspect processor are determined for each relation.

A processor from the first suspect group is chosen to compare with the master processor. The audit does a checksum on all of the tuples for the relation on the master processor and on all the tuples for the relation on the suspect processor. Identical checksums are removed and the remaining tuples from the master processor are compared to the remaining tuples from the suspect processor to determine which tuples are missing, extra or corrupt. This is then repeated for each of the suspect groups.

If the START and REL keywords are omitted from the input message line then all of the static redundant ODD relations are audited. If the REL keyword is used, then just the relation specified will be audited. If the START keyword is used, the audit will start with the specified relation and then audit all relations after this relation. The relations are ordered by ascending relation identifier.

The EXC:SODD-STP and EXC:SODD-RED-OP input messages may be used to stop the audit prematurely or to check the status of the audit, respectively.

The audit's output file contains a listing of all errors found. Each error message contains an error number, the

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type of error, the relation name, a list of processors where the error occurs, and the tuple in error. For corrupt tuples, both the corrupt tuple and the correct version of the tuple are printed. In addition to tuple listings, the error file contains a list of any other errors encountered during the audit. These errors may include loss of communication with a processor, DB primitive failures, or resource problems.

2. FORMAT

```
EXC:SODD:RED[,REL=a][,START=b],OUTFILE=c;
```

3. EXPLANATION OF MESSAGE

`RED` = Verify redundant relations across all the processors.

`a` = Relation to be audited. Only one redundant relation is requested to be audited. If the relation name has an underscore, the name must be placed in quotation marks. If REL is specified, any START argument will be ignored. The default is to audit all redundant relations.

Logical redundant (LR) relations:

DBCPRERG	LAB7_PCI	PCI7_LAB	RC_EQLOC
GLOBDOM	MODATT	PCI_PRT	SMCONF
LAB6PRT	MTBDCTU	PMGRPCKT	TMP4OSPS
LAB6_PCI	PCI6_LAB	PRT_PCI	TMP5OSPS

Fixed redundant (FR) relations:

ACB_CF	CKTCDDIG	FC_FGBCARR	PUO_CF
ACCT_CF	COI_GPID	FC_PBX	PUT_CF
ACPFX	CONT_TONE	FC_WZ1	QU_RGBK
AC_CF	COS_CTGY	FLEX_ANI	RR_DN
AC_CQDET	CPNBN_CF	GETCHT	RT_DTRTX
AC_DESTX	CV_DSTDN	GPDB	RT_SCRNING
AC_TGRP	CV_VECTR	HI_CF	S96ABSIG
AC_TKCT	CW_CF	HSSASGN	SCD_SAC
AMCALL	DAPRLDGT	IDAM	SCRIDXPA
AMCC_FAM	DAPRLFNL	ID_CF	SC_CF
AMCMCID	DA_3DIGIT	LID_CF	SEQREST
AMTKGP	DA_AMBIG	LOG_TONE	SF13
ANIMOD	DA_DIGSTRT	LOSS_TBL	SF43
ARCF	DA_TIMER	MDR_CF	SFG_ASFC
AR_CF	DBIMRERG	MDS_CF	SM_APID
AR_LNSI	DISERV	MFC_TYPE	SM_TRKG
ASI_CF	DISP_CF	MWCF	SRVDATA
ATH_CF	DI_COMP	NMIMPDGTS	SSP_ANN
AT_CF	DR_CF	NPASPLIT	TATYPE
BCL_CF	EDS_CF	NPA_SCRN	TD_CF
CADDEF	ESCO	NS_TRIG	TG_CF
CC_00X	FCCC_ISC	OP_ID	TMP2OSPS
CC_ONPA	FCEAINFO	OP_IDDN	TN_DEF
CF_CF	FCPCC_CC	PBG_INFO	TN_SEGS
CHGTBL	FCRSMCAR	PF_PARM	TONETIME
CHKLST	FC_CARR	PP_CF	
CHRGIDXEXP	FC_COINCHG	PUG_SM	

Logical redundant fixed redundant (LRFR) relations:

CMAPDATA	IST_PARM	NET_GPID	RC_CIRMK
CTINFO	LNNODE_M	OFFICECODE	RTDNMOD
GPID_NET	LSF_CF	OSPS_INT	RT_TRKG

Logical processor fixed redundant (LPFR) relations:

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BCL_GRP	IFTRANS	RTISATMP	RT_TGBL
BCL_MHTG	INTERFLW	RTPPSCRN	SF10
COT_CF	MDC_GRP	RT_FIXEDRI	TGTOATT
DSTID_RR	NCPVGTT	RT_MHG	THCOSTAT
E911PSAP	NOCCODE	RT_MPG	TMTSC
E911_SFG	PROPBID	RT_ROUTING	
ICX_ICI	RTICITK	RT_TG	

b = If specified, 'b' is a relation name that will be used as a starting point for the audit. The ordering of the relations is by ascending relation identifier, an integer assigned to relations. By default, the audit starts at the first relation.

c = This argument specifies where the output from the SODD audit will be placed (such as, OUTFILE="test1"). All files will be placed in the "/rclog" directory. Outfile name may be up to 14 characters long and may not contain a slash (/). Use upper case letters or enclose the outfile name in quotes.

Output files can be printed with the following message:
DUMP:FILE,ALL,FN="/rclog/test1";.

files can be removed from the "/rclog" directory with the following message:
CLR:FILESYS,FILE,FN="/rclog/test1";.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- CANNOT OPEN OUTPUT FILE = The outfile cannot be opened in the directory (/rclog). Check the outfile name and retry the message.
- INVALID OUTFILE NAME = The outfile name may not contain a slash (/). Check the outfile name and retry the message.

PF = Printout follows. The request was received and followed by the EXC:SODD-RED output message.

RL = Retry later. Request cannot be accepted now. Cannot start the audit while one is already in progress or cannot signal audit when it is not currently running. Standard system responses also apply.

5. REFERENCES

Input Message(s):

```
CLR:FSYS-FILE
DUMP:F-ALL
EXC:SODD-RED-OP
EXC:SODD-STP
```

Output Message(s):

```
EXC:SODD-RED
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-600-10x *Translations Data*

EXC:SODD-STP

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the current static data audit be stopped. Static data audits check for split translations in the static office-dependent data (SODD).

This message will set a stop flag that is global to the static data audits. The static data audits periodically check this flag and terminate if it is set.

2. FORMAT

```
EXC:SODD:STP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. Check the format and retry the message.

`PF` = Printout follows. The request was received and followed by the EXC:SODD-STP output message. After the audit completes, the output can be found in the output file specified in directory (/rclog).

`RL` = Retry later. No static data audit running at this time.

5. REFERENCES

Input Message(s):

```
EXC:SODD-BRCS
EXC:SODD-ISDN
EXC:SODD-LINE
EXC:SODD-MLHG
EXC:SODD-PSMHG
EXC:SODD-PSTRK
EXC:SODD-RED
EXC:SODD-TRUNK
```

Output Message(s):

```
EXC:SODD-STP
```

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EXC:SRVT

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that the signaling connection control port (SCCP) routing verification test (SRVT) be initiated.

2. FORMAT

```
EXC:SRVT:TYPE=a,DIGITS=b[,TPC=c][,NTSP=d][,TRACE];
```

3. EXPLANATION OF MESSAGE

`TRACE` = If this keyword is present, a list of TSPs crossed during the test will be included in the output. If this keyword is not present, a list of TSPs crossed will be included only when an error occurs and one or more TSPs had been crossed when the error occurred. No TRACE word will appear if not requested.

`a` = The translation type. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The digits in the global title, 19 digit maximum (such as, an 800 number).

`c` = The translation point code (TPC) to which the initiator should address and send an SRVT message. If not included, the default is chosen by common network interface (CNI) based on the translation type. CNI will send more than one SRVT message if more than one unique TPC is returned.

Must be entered in one of the following formats:

`eeefffggg` = *ANSI*® standard.
`eeehhfggg` = AT&T standard.
Note: Non-local network point codes always use *ANSI*® standard format.

`d` = The maximum number of translation signaling points (TSPs) allowed to be crossed (default 1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The network identifier.

`f` = The cluster identifier.

`g` = The member identifier.

`h` = The region identifier.

4. SYSTEM RESPONSE

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`PF` = Printout follows. Followed by the EXC:SRVT output message.

5. REFERENCES

Input Message(s):

```
CHG:SRVT
OP:TPC
```

Output Message(s):

```
CHG:SRVT
EXC:SRVT
OP:TPC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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EXC:TRCRT

Software Release: 5E19(1) and later
Command Group: PCF
Application: 5
Type: Input

1. PURPOSE

Trace route (TRCRT), traces the route between two hosts using internet control message protocol (ICMP) error messages to identify the routers forwarding network traffic from one host to the other. TRCRT sends an ICMP echo request message with data to the destination and expects a reply from the destination, with the original data sent included in the reply. Each router between the source and destination will reply if configured to reply to the ICMP request, if it is not configured to reply, a timeout will be noted for this high order path (HOP).

Since this message is used by different applications, not all instances of the EXC:TRCRT message are valid for every application on a given processor (SM or CHNG). If the application is configured for an SM, then Format 1 is allowed.

If the application is configured for a CHNG, then Format 2 is allowed [for example, SM (Format 1)] is not valid for the PCF application.

2. FORMAT

```
[1]    EXC:TRCRT,SM=a,IPDEST=e-f-g-h[,HOPLIMIT=i]...
       ...[,FIRSTHOP=j][,BYTES=k][,TOS=l][,TIMEOUT=m];
       _____________________________________________________

[2]    EXC:TRCRT,CHNG=a-b-c-d,IPDEST=e-f-g-h[,HOPLIMIT=i]...
       ...[,FIRSTHOP=j][,BYTES=k][,TOS=l][,TIMEOUT=m];
       _____________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Destination IP address segment (0 - 255).

`f` = Destination IP address segment (0 - 255).

`g` = Destination IP address segment (0 - 255).

`h` = Destination IP address segment (0 - 255).

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`i` = The HOP limit (1 - 30, default is 30).

A HOP is a unit of distance when used in comparing network routes, usually a single hop is the distance from one router to another. The HOP limit is the number of HOPS between two hosts, based on the number of different routers needed to traverse the distance between the two hosts.

`j` = The first HOP (1 - 30, default is 1).

`k` = The number of bytes to send to IPDEST (1 - 126, default is 40).

`l` = Type of service (TOS) (0 - 255, default is 0).

`m` = The message timeout (1 - 10, default is 5).

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized, or was not acceptable. May also include:

```
- ICMP ERROR COUNT IS PROVISIONED TO LESS THAN 28 BYTES
- NOT VALID FOR PH
- NOT VALID FOR SM
- NOT VALID PROCESSOR
- NUMBER OF BYTES IN EXCESS OF PROVISIONED LIMIT
```

RL = Retry later.

`PF` = Printout follows. The request has been accepted and is in progress. Followed by the EXC:TRACEROUTE output message(s).

5. REFERENCES

Input Message(s):

```
EXC:TRCRT
```

Output Message(s):

```
EXC:TRACEROUTE
```

Input Appendix(es):

```
APP:RANGES
```

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EXC:UCL

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the user shell accept an input message that it previously rejected because it was not represented in the input message catalog database.

When operating in the full capability mode, the user shell will reject any input message that is not represented in the input message (IM) catalog database, with an error acknowledgement. Consequently, a missing or erroneous entry in the IM catalog will cause the user shell to reject the associated input message, even if it is typed correctly. If this should occur, the user can force the user shell to accept the message and attempt to execute it by entering the EXC:UCL input message immediately following the error acknowledgement. This input message affects only the message immediately preceding the rejected input message. It will not cause the user shell to re-execute a successful message or a message with a syntax error, and it has no effect on any subsequent message. If it is used to force the user shell to execute an invalid input message, the invalid message will be rejected by the program that processes it.

This input message may be used only when the shell is operating in the full capability mode. It will be rejected if the shell is operating in the partial capability mode or limp mode.

2. FORMAT

```
EXC:UCL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The input message has been rejected because:

```
-   'EXC:UCL' INVALID IN PART MODE
-   CFTSHL CANNOT EXECUTE 'EXC:UCL' ITSELF
-   PREVIOUS COMMAND HAD A SYNTAX ERROR
-   NO PREVIOUS COMMAND AVAILABLE
```

`OK` = Good. Followed by the input message to be executed, its acknowledgement, and any resulting output messages. Refer to the manual page for the previously-executed input message.

5. REFERENCES

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.

Note: This format shows the format of the function call to be used when the switch CM complex is a Model 2 or earlier.

Format 2 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.

Note: This format shows the format of the function call to be used when the switch CM complex is a Model 3.

Format 3 requests that a transfer of execution to an absolute address in the specified CMP be executed.

This message may be used together with any of the other CMP generic utility input messages (see the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    EXC:UT:CMP=a,{MATE|PRIM},CALL,{FUNC="b"|SYMIDX=c}
       [,ARG=d,PARM=e[-e...]]{!|;}

[2]    EXC:UT:CMP=a,{MATE|PRIM},CALL,{FUNC="b"|SYMIDX=c}[,RP1=f]
       [,RP2=f][,RP3=f][,RP4=f][,RP5=f][,RP6=f][,RP7=f][,RP8=f]
       [,ARG=d,PARM=e[-e...]][,RTNSZ=h]{!|;}

[3]    EXC:UT:CMP=a,{MATE|PRIM},GOTO,ADDR=g{!|;}
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby CMP.

`PRIM` = Execute this input message on the active CMP.

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a = CMP number.

b = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'c' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

d = The number of shorts being passed in PARM list 'f' to the called functions stack (0 to 10).

e = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this input message.

- If switch CM complex is Model 2 or earlier, the compiler rules state that all parameters passed to a function are presented on the stack.
- If switch CM complex is a Model 3, the compiler rules state that the first 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. These first 8 parameters are passed using field(s) 'f' of this message. Stack parameter will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

f First 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the fields 'd' and 'e' must be used to pass the information.

1 If switch CM complex is Model 2 or earlier, the R[1-8] fields are set to zero and not used.

2 If switch CM complex is a Model 3, the compiler rules state that the first 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. Stack parameter fields 'd' and 'e' will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

g = Transfer processor to this absolute address. This is only valid in WHEN breakpoint, matching WHEN (switch CM complex Model 3 only), address access WHEN (switch CM complex Model 3 only), and data access WHEN (switch CM complex Model 3 only) clauses.

h = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
EXC:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

System Maintenance Requirements and Tools

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EXC:UT-CMPMSG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
EXC:UT:CMPMSG=a-b,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f
[-f...]];
```

3. EXPLANATION OF MESSAGE

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = CMPMSG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = The number of parameters being passed to function (0 to 10).

`d` = The parameters to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). If the parameters are addresses, the high byte must be input before the low byte.

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
EXC:UT-CMPMSG
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-DNUS

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:DNUS=a-b,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f[-f]...[-f]]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = DNU-S number.

`c` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Number of parameters being passed to function (range is 0-10) (default is 0).

`f` = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a list separated by a dash ('-').

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-DNUS
DUMP:UT-SYMID
```

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```
LOAD:UT-DNUS
```

Output Message(s):

```
EXC:UT-DNUS
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

EXC:UT-FPC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.

WARNING: The user is responsible that result from the use of this input message. Know the effects of the message before using it. This message can access and affect any function in the foundation peripheral controller.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
EXC:UT:FPC=a,CALL,{FUNC="b"|SYMIDX=c}[,ARG=d],PARM=e[-e...-e];
```

3. EXPLANATION OF MESSAGE

`a` = FPC number.

`b` = Function name to be called. Must be entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`c`' must be used to enter this input message using symbolic access. The functions symbol index number can be determined by using the DUMP:UT-SYMID input message.

`c` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`d` = Number of parameters being passed to function. (0 - 10, default is 0).

`e` = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

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```
DUMP:UT-FPC
DUMP:UT-SYMID
LOAD:UT-FPC
```

Output Message(s):

```
EXC:UT-FPC
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-IDCU

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call be made to a function using parameters in the specified integrated digital carrier unit (IDCU).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:IDCU=a-b,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f[-f]...[-f]]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`c` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Number of parameters being passed to function (range is 0-10) (default is 0).

`f` = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a list separated by a dash ('-').

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

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```
DUMP:UT-IDCU
DUMP:UT-SYMID
LOAD:UT-IDCU
```

Output Message(s):

```
EXC:UT-IDCU
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-IDCULSI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call be made to a function using parameters in the specified integrated digital carrier unit (IDCU) loop side interface (LSI).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:IDCULSI=a-b-c,CALL,{FUNC="d"|SYMIDX=e}
[,ARG=f,PARM=g[-g]...[-g]]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`c` = LSI number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`d` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Number of parameters being passed to function (range is 0-10) (default is 0).

`g` = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a list separated by a dash.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
DUMP:UT-IDCULSI
DUMP:UT-SYMID
LOAD:UT-IDCULSI
```

Output Message(s):

```
EXC:UT-IDCULSI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-ISLUCC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call be made to a function using parameters in the specified integrated services line unit common controller (ISLUCC).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:ISLUCC=a-b,CALL,{FUNC="c"|SYMIDX=d}
[,ARG=e,PARM=f[-f]...[-f]]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Line unit number.

`c` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Number of parameters being passed to function (range is 0-10) (default is 0).

`f` = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. The first byte of each two-byte parameter is the low byte; the second the high byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

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```
DUMP:UT-ISLUCC
DUMP:UT-SYMID
LOAD:UT-ISLUCC
```

Output Message(s):

```
EXC:UT-ISLUCC
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

EXC:UT-MCTSI-MH-A

Software Release: 5E15 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function be executed using parameters in the specified message handler (MH) unit.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:MCTSI=a-b,MH,CALL,{FUNC="c"|SYMIDX=d}
[,ARG=e,PARM=f[-f...]]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Message handler unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Number of parameters being passed to function (range is 0-10) (default is 0).

`f` = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they should be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

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Input Message(s):

```
DUMP:UT-MCTSI-MH
DUMP:UT-SYMID
LOAD:UT-MCTSI-MH
```

Output Message(s):

```
EXC:UT-MCTSI-MH
```

Input Appendix(es):

```
APP:UT-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-MCTSI-MH-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified message handler (MH) unit be executed. This format shows the format of the function call to be used when the MH is a MH32 or MHEIB type.

Format 2 requests that an unconditional call to a function using parameters in the specified MH unit be executed. This format shows the format of the function call to be used when the MH is a MHPPC type.

The MH image and hardware type can be determined for this processor by using the DUMP:UT-SYMID input message.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    EXC:UT:MCTSI=a-b,MH,CALL,{FUNC="c"|SYMIDX=d}...
       ...[,ARG=e,PARM=f[-f...]]{!|;}
```

```
[2]    EXC:UT:MCTSI=a-b,MH,CALL,{FUNC="c"|SYMIDX=d}...
       ...[,RP1=g][,RP2=g][,RP3=g][,RP4=g][,RP5=g][,RP6=g]...
       ...[,RP7=g][,RP8=g][,ARG=e,PARM=f[-f...]][,RTNSZ=h]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MH unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

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e = The number of shorts being passed in PARM list 'f' to the called functions stack (0 to 10) (default is 0).

f = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this input message.

- If MH unit is a MH32 or a MHEIB, the compiler rules state that all parameters passed to a function are presented on the stack.
- If MH unit is a MHPPC, the compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

  These first 8 parameters are passed using field(s) 'g' of this message. Stack parameter will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

g = First 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the fields 'e' and 'f' must be used to pass the information.

- If MH unit is a MH32 or MHEIB, the RP[1-8] fields are set to zero and not used.
- If MH unit is a MHPPC, the compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

  Stack parameter fields 'e' and 'f' will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

h = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-MCTSI-MH
DUMP:UT-SYMID
LOAD:UT-MCTSI-MH
```

Output Message(s):

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```
EXC:UT-MCTSI-MH
```

Input Appendix(es):

```
APP:UT-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

EXC:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified peripheral interface (PI) unit be executed.

Format 2 requests that a transfer of execution to an absolute address in the specified PI be executed.

WARNING: The user is responsible for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

```
[1]    EXC:UT:MCTSI=a-b,PI,CALL,{FUNC="c"|SYMIDX=d}
       [,ARG=e,PARM=f[-f...]]{!|;}

[2]    EXC:UT:MCTSI=a-b,PI,GOTO,ADDR=g{!|;}
```

3. EXPLANATION OF MESSAGE

Note: The GOTO option of this input request is only supported in PIs of PI2 hardware type.

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

`c` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input request using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input request.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input request.

`e` = Number of parameters being passed to function.

`f` = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are 2 bytes, the low byte must be input before the high byte. Pointers must be entered in the following format: offset-segment register (example: 0x5d5fa ==> 0xfa5d50 where 0xfa is the offset and 0x5d50 is the value of the segment register. This swabbing is only true in PIs of PI1 type.

`g` = Transfer processor to this absolute address (ADDR). This is only valid in WHEN breakpoint

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clauses. This is only valid in PIs of PI2 type.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
DUMP:UT-SYMID
END:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
IF:UT-MCTSI-PI
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

Output Message(s):

```
EXC:UT-MCTSI-PI
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-MMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified module message processor (MMP) be executed.

WARNING: The user is responsible that result from the use of this input message. Know the effects of the message before using it. This message can access and affect any function in the module message processor.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
EXC:UT:MMP=a-b,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f[-f]...
[-f]];
```

3. EXPLANATION OF MESSAGE

`a` = Message switch side.

`b` = MMP unit number.

`c` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Number of parameters being passed to function.

`f` = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a dash-separated list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
DUMP:UT-MMP
DUMP:UT-SYMID
LOAD:UT-MMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-MSGS

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified message switch (MSGS) be executed.

NOTE: This command is valid only on MSGS processors of communication Model 3.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:MSGS=a,{AP|IP},CALL,{FUNC="b"|SYMIDX=c}[,RP1=d][,RP2=d][,RP3=d]
[,RP4=d][,RP5=d][,RP6=d][,RP7=d][,RP8=d][,ARG=e,PARM=f[-f...]][,RTNSZ=g];
```

3. EXPLANATION OF MESSAGE

`AP` = Execute this command on the MSGS application processor.

`IP` = Execute this command on the MSGS interface processor.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`c`' must be used to enter this command using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input command.

`c` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

`d` = First 8 parameters (Note: each parameter is 1 to 4 bytes long) are passed in registers, one parameter per each register loaded sequentially.

Structures (of any size) passed as parameters require the user to build a copy of the structure somewhere else in memory, and then give that memory address in the parameter list.

If the number of parameters passed to the called function exceeds eight, the fields 'e' and 'f' must also be used to pass the additional information.

`e` = The number of shorts being passed in PARM list 'f' to the called functions stack (0 to 10).

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`f` = Stack parameter information to be presented to called function. Each parameter is represented as a "long", but must be entered as two "shorts" separated by a dash. For example:

char(aa) = h'0-h'aa

short(bbcc) = h'0-h'bbcc

long(ddeeffaa) = h'ddee-h'ffaa

If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). The maximum number of supported stack parameters is 5.

`g` = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes, default is zero.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
EXC:UT-MSGS
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):

System Maintenance Requirements and Tools

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EXC:UT-OFI

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified optical facility interface (OFI) be executed.

This message may be used together with any of the other OFI generic utility input messages. Refer to the input messages listed in the REFERENCES section of this message description.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:OFI=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}[,ARG=g,PARM=h[-h...]]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Side number.

`e` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`f`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`f` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`g` = Number of parameters being passed to function (0 to 10, default is 0).

`h` = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10) must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by

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this command.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-OFI
DUMP:UT-SYMID
LOAD:UT-OFI
```

Output Message(s):

```
EXC:UT-OFI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-ONTC

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified office network and timing complex processor (ONTC) be executed.

NOTE: This command is valid only on ONTC processors of communication Model 3.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:ONTC=a,{AP|IP},CALL,{FUNC="b"|SYMIDX=c}[,RP1=d][,RP2=d][,RP3=d]
[,RP4=d][,RP5=d][,RP6=d][,RP7=d][,RP8=d][,ARG=e,PARM=f[-f...]][,RTNSZ=g];
```

3. EXPLANATION OF MESSAGE

`AP` = Execute this command on the ONTC application processor.

`IP` = Execute this command on the ONTC interface processor.

`a` = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`c`' must be used to enter this command using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input command.

`c` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

`d` = First 8 parameters (Note: each parameter is 1 to 4 bytes long) are passed in registers, one parameter per each register loaded sequentially.

Structures (of any size) passed as parameters require the user to build a copy of the structure somewhere else in memory, and then give that memory address in the parameter list.

If the number of parameters passed to the called function exceeds eight, the fields 'e' and 'f' must also be used to pass the additional information.

`e` = The number of shorts being passed in PARM list 'f' to the called functions stack (0 to 10).

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`f` = Stack parameter information to be presented to called function. Each parameter is represented as a "long", but must be entered as two "shorts" separated by a dash. For example:

char(aa) = h'0-h'aa

short(bbcc) = h'0-h'bbcc

long(ddeeffaa) = h'ddee-h'ffaa

If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). The maximum number of supported stack parameters is 5.

`g` = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes, defaults to zero.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
EXC:UT-ONTC
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):

System Maintenance Requirements and Tools

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EXC:UT-PPC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified pump peripheral controller (PPC) be executed.

WARNING: The user is responsible that result from the use of this input message. Know the effects of the message before using it. This message can access and affect any function in the pump peripheral controller.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
EXC:UT:PPC=a,CALL,{FUNC="b"|SYMIDX=c}[,ARG=d],PARM=e[-e...-e];
```

3. EXPLANATION OF MESSAGE

`a` = PPC number.

`b` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`c`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`c` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`d` = Number of parameters being passed to function.

`e` = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

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Input Message(s):

```
DUMP:UT-PPC
DUMP:UT-SYMID
LOAD:UT-PPC
```

Output Message(s):

```
EXC:UT-PPC
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-PSUCOM-A

Software Release: 5E18(1) - 5E19(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the printing of the PSU2E processor debugging information associated with the input shell command string. This input message is applicable only for the enhanced packet switching unit (PSU2E). The user can request one or more shell commands in one input message.

The user can request debugging information from either the control fanout (CF) unit, or any of the available packet fanout (PF) units on the PSU2E processor.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:PSUCOM=a-b-c,{CF|PF=d},cmd="e";
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`c` = Packet switching unit common board (PSUCOM) side number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`d` = PF shelf number. Note that there is no shelf number associated with the CF. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`e` = One or more shell string commands. Each command is separated by the ";" character. The total string size must not exceed 100 characters.

4. SYSTEM RESPONSE

For general UT responses, refer to the APP:UT-IM-REASON appendix in the Appendices section of the Input Messages manual.

5. REFERENCES

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IM/OM References:

None.

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EXC:UT-PSUCOM-B

Software Release: 5E20(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the printing of the PSU2E or IPS processor debugging information associated with the input shell command string. This input message is applicable only for the enhanced packet switching unit (PSU2E) or intelligent packet switch (IPS). The user can request one or more shell commands in one input message.

The user can request debugging information from either the control fanout (CF) unit, or any of the available packet fanout (PF) units on the PSU2E or IPS processor.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:PSUCOM=a-b-c,{CF|PF=d},cmd="e";
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`c` = Packet switching unit common board (PSUCOM) side number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`d` = PF shelf number. Note that there is no shelf number associated with the CF. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

`e` = One or more shell string commands. Each command is separated by the ";" character. The total string size must not exceed 100 characters.

4. SYSTEM RESPONSE

For general UT responses, refer to the APP:UT-IM-REASON appendix in the Appendices section of the Input Messages manual.

5. REFERENCES

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Output Message(s):

```
EXC:UT-PSUCOM
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

EXC:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed. Note: This format shows the syntax of the function call to be used when the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type.

Format 2 requests that an unconditional call to a function using parameters in the specified PSUPH be executed. Note: This format shows the syntax of the function call to be used when the PSUPH is a PHV5 hardware type. Format 3 requests that a transfer of execution to an absolute address in the specified PSUPH be executed. This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section). If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    EXC:UT:PSUPH=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}...
       ...[,ARG=g,PARM=h[-h...]]{!|;}

[2]    EXC:UT:PSUPH=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}...
       ...[,RP1=i][,RP2=i][,RP3=i][,RP4=i][,RP5=i][,RP6=i]...
       ...[,RP7=i][,RP8=i][,ARG=g,PARM=h[-h...]][,RTNSZ=j]{!|;}

[3]    EXC:UT:PSUPH=a-b-c-d,GOTO,ADDR=k{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number (always 0).

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the

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symbol index number '`f`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`f` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`g` = Number of parameters being passed to function. Must be a number from 0 to 10.

`h` = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10) must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this command.

- If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the compiler rules state that all parameters passed to a function are presented on the stack.

  If the PSUPH is a PH2 hardware type and the parameters are 4 bytes, the low two bytes must occur before the high two bytes. Pointers must be entered in the following format: offset-segment register (example: 0x5d5fa ==> 0xfa5d50 where 0xfa is the offset and 0x5d50 is the value of the segment register).

  Otherwise, if the parameters are 4 bytes, the high byte must be input before the low byte. Pointers must be entered in the following format: (example: 0x7c5d5fa ==> 0x7c5d5fa).
- If the PSUPH is a PHV5 hardware type, the compiler rules state that the first 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. These first 8 parameters are passed using field(s) 'i' of this message. Stack parameters will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

`i` = First 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the fields 'g' and 'h' must be used to pass the information.

- If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the RP[1-8] fields are set to zero and not used.
- If the PSUPH is a PHV5, the compiler rules state that the first 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. Stack parameter fields 'g' and 'h' will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

`j` = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

`k` = Transfer processor to this absolute address (ADDR). This is only valid in WHEN breakpoint

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clauses.

Note: The GOTO option and its required address are not supported on a PSUPH of the PH2 hardware types.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
EXC:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits Manual*

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EXC:UT-PSUPH-B

Software Release: 5E16(1) - 5E20(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed. This format shows the syntax of the function call to be used when the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type.

Format 2 requests that an unconditional call to a function using parameters in the specified PSUPH be executed. This format shows the syntax of the function call to be used when the PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type.

Format 3 requests that a transfer of execution to an absolute address in the specified PSUPH be executed. This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    EXC:UT:PSUPH=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}. . .
       . . .[,ARG=g,PARM=h[-h...]]{!|;}
       ____________________________________________________

[2]    EXC:UT:PSUPH=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}. . .
       . . .[,RP1=i][,RP2=i][,RP3=i][,RP4=i][,RP5=i][,RP6=i]. . .
       . . .[,RP7=i][,RP8=i][,ARG=g,PARM=h[-h...]][,RTNSZ=j]{!|;}
       ____________________________________________________

[3]    EXC:UT:PSUPH=a-b-c-d,GOTO,ADDR=k{!|;}
       ____________________________________________________
```

3. EXPLANATION OF MESSAGE

`GOTO` = This option and its required address are not supported on a PSUPH of the PH2 hardware types.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'f' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Number of parameters being passed to function. Must be a number from 0 to 10.

h = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10) must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this command.

- If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the compiler rules state that all parameters passed to a function are presented on the stack.

  If the PSUPH is a PH2 hardware type and the parameters are 4 bytes, the low two bytes must occur before the high two bytes. Pointers must be entered in the following format: offset-segment register (example: 0x5d5fa ==> 0xfa5d50 where 0xfa is the offset and 0x5d50 is the value of the segment register).

  Otherwise, if the parameters are 4 bytes, the high byte must be input before the low byte. Pointers must be entered in the following format: (example: 0x7c5d5fa ==> 0x7c5d5fa).
- If the PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type, the compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

  These first 8 parameters are passed using variable(s) 'i' of this message. Stack parameters will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

i = First 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the variables 'g' and 'h' must be used to pass the information.

- If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the RP[1-8] variables are set to zero and not used.
- If the PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 the compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

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Stack parameter variables 'g' and 'h' will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

j = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

k = Transfer processor to this absolute address (ADDR). This is only valid in WHEN breakpoint clauses.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
EXC:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits Manual*

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EXC:UT-PSUPH-C

Software Release: 5E21(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed. This format shows the syntax of the function call to be used when the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type.

Format 2 requests that an unconditional call to a function using parameters in the specified PSUPH be executed. This format shows the syntax of the function call to be used when the PSUPH any other hardware type than used in Format 1.

Format 3 requests that a transfer of execution to an absolute address in the specified PSUPH be executed. This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    EXC:UT:PSUPH=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}. . .
       . . .[,ARG=g,PARM=h[-h...]]{!|;}
       ____________________________________________________

[2]    EXC:UT:PSUPH=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}. . .
       . . .[,RP1=i][,RP2=i][,RP3=i][,RP4=i][,RP5=i][,RP6=i]. . .
       . . .[,RP7=i][,RP8=i][,ARG=g,PARM=h[-h...]][,RTNSZ=j]{!|;}
       ____________________________________________________

[3]    EXC:UT:PSUPH=a-b-c-d,GOTO,ADDR=k{!|;}
       ____________________________________________________
```

3. EXPLANATION OF MESSAGE

`GOTO` = This option and its required address are not supported on a PSUPH of the PH2 hardware types.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`f`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`f` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`g` = Number of parameters being passed to function. Must be a number from 0 to 10.

`h` = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10) must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this command.

- If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the compiler rules state that all parameters passed to a function are presented on the stack.

  If the PSUPH is a PH2 hardware type and the parameters are 4 bytes, the low two bytes must occur before the high two bytes. Pointers must be entered in the following format: offset-segment register (example: 0x5d5fa ==> 0xfa5d50 where 0xfa is the offset and 0x5d50 is the value of the segment register).

  Otherwise, if the parameters are 4 bytes, the high byte must be input before the low byte. Pointers must be entered in the following format: (example: 0x7c5d5fa ==> 0x7c5d5fa).
- If the PSUPH is any other hardware type, the compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

  These first 8 parameters are passed using variable(s) '`i`' of this message. Stack parameters will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

`i` = First 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the variables '`g`' and '`h`' must be used to pass the information.

- If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the RP[1-8] fields are set to zero and not used.
- If the PSUPH is any other hardware type the compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

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Stack parameter variables 'g' and 'h' will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

j = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

k = Transfer processor to this absolute address (ADDR). This is only valid in WHEN breakpoint clauses.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
EXC:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits Manual*

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EXC:UT-QGP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified quad-link packet switch (QLPS) gateway processor (QGP) be executed.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
EXC:UT:QGP=a-b,{AP|MSGH},CALL,{FUNC="c"|SYMIDX=d}
[,ARG=e,PARM=f[-f...]];
```

3. EXPLANATION OF MESSAGE

`AP` = Execute this input message on the QGP application processor.

`MSGH` = Execute this input message on the QGP message handler processor.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = The number of parameters being passed to function (0 to 10). from 0 to 10.

`f` = The parameters to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). If the parameters are addresses, then the high byte must be input before the low byte.

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4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
EXC:UT-QGP
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-SM-A

Software Release: 5E15 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified switching module (SM) be executed.

Format 2 requests that a transfer of execution to an absolute address in the specified SM be executed. This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the **REFERENCES** section). If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    EXC:UT:SM=a,CALL,{FUNC="b"|SYMIDX=c}[,ARG=d,PARM=e[-e...]]{!|;}

[2]    EXC:UT:SM=a,GOTO,ADDR=f{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`c`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`c` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`d` = Number of parameters being passed to function (range is 0-10) (default is 0).

`e` = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

`f` = Transfer the processor to this absolute address. This is only valid in WHEN breakpoint or match WHEN clauses.

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
EXC:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-SM-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified switching module (SM) be executed. This format shows the format of the function call to be used when the SM software configuration is not CNFG2KPPC.

Format 2 requests that an unconditional call to a function using parameters in the specified SM be executed. This format shows the format of the function call to be used when the SM software configuration is CNFG2KPPC.

Format 3 requests that a transfer of execution to an absolute address in the specified SM be executed.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    EXC:UT:SM=a,CALL,{FUNC="b"|SYMIDX=c}. . .
       . . .[,ARG=d,PARM=e[-e...]]{!|;}
       ____________________________________________________

[2]    EXC:UT:SM=a,CALL,{FUNC="b"|SYMIDX=c}. . .
       . . .[,RP1=f][,RP2=f][,RP3=f][,RP4=f][,RP5=f][,RP6=f]. . .
       . . .[,RP7=f][,RP8=f][,ARG=d,PARM=e[-e...]][,RTNSZ=h]{!|;}
       ____________________________________________________

[3]    EXC:UT:SM=a,GOTO,ADDR=g{!|;}
       ____________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`c`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input

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message.

c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

d = The number of shorts being passed in PARM variable 'e' to the called functions stack (0 to 10). Default is 0.

e = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this input message.

If the SM Software Configuration is:	Then:
Not CNFG2KPPC	The compiler rules state that all parameters passed to a function are presented on the stack.
CNFG2KPPC	The compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length. These first 8 parameters are passed using variable 'f' of this message. Stack parameter will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

f = First 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the variables 'd' and 'e' must be used to pass the information.

If the SM Software Configuration is:	Then:
Not CNFG2KPPC	The R[1-8] fields are set to zero and not used.
CNFG2KPPC	The compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length. Stack parameter variables 'd' and 'e' will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

g = Transfer the processor to this absolute address. This is only valid in WHEN breakpoint or match WHEN clauses.

h = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

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```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
EXC:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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EXC:UT-TMUX

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
EXC:UT:TMUX=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}
[,ARG=g,PARM=h[-h]...[-h]]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`f`' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`f` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`g` = Number of parameters being passed to function (range is 0-10) (default is 0).

`h` = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a list separated by a dash.

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-TMUX
DUMP:UT-SYMID
LOAD:UT-TMUX
```

Output Message(s):

```
EXC:UT-TMUX
```

Input Appendix(es):

```
APP:UT-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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30. FRMV

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FRMV:LN

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests forced removal of the specified node from service, regardless of the state of the link, mate, or other nodes.

An attempt is made to remove the node from service, provided that the node is not the ring peripheral controller (RPC), the major state is active (ACT), the node is in the active ring segment, and the interprocess message switch (IMS) subsystem is not initializing at a level higher than 1A. If successful, the link node (LN) major state is changed to out-of-service (OOS), and the node itself is placed in the quarantine state. When a node is manually removed, it becomes the responsibility of the user to restore the node to service. This input message does not use the maintenance input request administrator (MIRA) queue, so the OP:DMQ and STOP:DMQ input messages do not apply to it and it may be executed ahead of previously entered input messages in the MIRA queue.

WARNING: This input message can cause signaling point isolation - isolating the office and interrupting common channel signaling (CCS) message processing, by removing the last LN of a set. Use it only when it is necessary to override the safety checks of the RMV:LN input message.

2. FORMAT

```
FRMV:LNa=b;
```

3. EXPLANATION OF MESSAGE

`a` = A ring node (RN) group number with explicit leading zero for group numbers less than 10. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` The node's position in the RN group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the FRMV:LN output message.

5. REFERENCES

Input Message(s):

`DGN:LN`

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```
RMV:LN
RST:LN
```

Output Message(s):

```
DGN:LN
FRMV:LN
RMV:LN
RST:LN
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Services and Associated Signaling Service Feature*

MCC Display Page(s):

118 (CNI RING STATUS PAGE)
1520 (RING NODE STATUS PAGE)
1521 (SIGNALING LINK SUMMARY PAGE)
1522 (SIGNALING LINK PAGE)

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31. GRC

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GRC:CANCEL

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) job that is waiting in the queue be canceled. This allows the user to un-schedule a GRC job. If the GRC job has been split, SECT must be provided.

Note: Use the CLR:GRC message since it will replace this message.

2. FORMAT

```
GRC:CANCEL,NAME=a[,SECT=b];
```

3. EXPLANATION OF MESSAGE

`a` = GRC name (up to 10 characters).

`b` = GRC section number.

4. SYSTEM RESPONSE

`NG` = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.

`PF` = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of the operation.

5. REFERENCES

Input Message(s):

```
CLR:GRC
SCHED:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

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235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-070-100 *Administration and Engineering Guidelines*

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GRC:CONTINUE

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) operation that is halted be restarted. This input message restarts the GRC process that was halted using the STP:GRC input message. The REPT:GRC input message can be used to determine which job was halted.

Note: Use the EXC:GRC input message since it will replace this input message.

2. FORMAT

```
GRC:CONTINUE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.

`PF` = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of the operation.

5. REFERENCES

Input Message(s):

```
EXC:GRC
STP:GRC
REPT:GRC
SCHED:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

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235-070-100 *Administration and Engineering Guidelines*

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GRC:HALT

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the execution of the current global recent change (GRC) job be suspended. This input message stops the processing GRC job gracefully. The EXC:GRC input message continues job execution.

Note: Use the STP:GRC message since it will replace this message.

2. FORMAT

```
GRC:HALT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.

PF = Printout follows. Followed by the GRC:STATUS output message indicating that the job was successfully halted.

5. REFERENCES

Input Message(s):

```
STP:GRC
CLR:GRC
EXC:GRC
SCHED:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
REPT:GRC
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

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235-070-100 *Administration and Engineering Guidelines*

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GRC:PASSWORD

Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

Requests that the global recent change (GRC) password for the given clerk identifier be updated or deleted.

Note: Use the EXC:GRCPASSWORD message since it will replace this message.

2. FORMAT

```
GRC:PASSWORD,CLERKID=a,{PASSWD=b|DELETE};
```

3. EXPLANATION OF MESSAGE

`DELETE` = Delete the password.

`a` = Clerk identifier assigned to GRC clerk.

`b` = New password for GRC clerk.

4. SYSTEM RESPONSE

`NG` = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.

`OK` = Good. The input message has been accepted indicating that the action will be taken.

5. REFERENCES

Input Message(s):

```
EXC:GRCPASSWORD
REPT:GRC
```

Output Message(s):

```
GRC:ERROR
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

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235-070-100 *Administration and Engineering Guidelines*

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GRC:REPORT

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a report of the global recent change (GRC) activity be printed. The NAME field refers to the name of a GRC job. If NAME is not entered, the schedule for all GRC jobs will be displayed. If NAME is entered, a more detailed status of the named job will be reported.

If a named GRC job has been split into sections, the section number MUST be provided using the SECT input message line option.

When BATCH is specified, a list of all time-released batch jobs will print. When HISTORY is specified, a history of all input messages executed for all GRC jobs will be printed unless a GRC NAME is specified. When UPDSPEC is specified, a list of the updates defined for all GRC jobs will be printed unless a GRC NAME is specified. When QUERY is specified, the query criteria for all GRC jobs will be printed unless a GRC NAME is specified.

Note: Use the REPT:GRC message since it will replace this message.

2. FORMAT

```
GRC:REPORT[,NAME=a[,SECT=b]][,DEVICE="c"][,BATCH][,HISTORY]
[,UPDSPEC][,QUERY];
```

3. EXPLANATION OF MESSAGE

`BATCH` = Report the current list of recent change/verify (RC/V) batch jobs scheduled.

`HISTORY` = Report the history of input messages executed on this GRC name.

`QUERY` = List the criteria specified for this GRC name.

`UPDSPEC` = List updates specified for this GRC name.

`a` = GRC name (up to 10 characters).

`b` = GRC section number.

`c` = Destination device or file for the report. The device or file name is input as a character string and must be enclosed with double quotation marks. If the input string is prefixed by a slash (/), the destination will be taken as the name of a file. The length of the file name must not exceed 30 characters. If the device name does not start with a slash (/), it must correspond to an output device defined in a "device" record in the equipment configuration database (ECD). The default destination is the name of the default tty device obtained from the environment variable LCHAN.

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4. SYSTEM RESPONSE

NG = No good. The request was denied. The GRC:ERROR output message provides the reason for failure.

PF = Printout follows. Followed by the REPT:GRC output message.

5. REFERENCES

Input Message(s):

```
REPT:GRC
EXC:GRCPASSWORD
```

Output Message(s):

```
GRC:ERROR
REPT:GRC
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-070-100 *Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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GRC:RESCHED

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) job be rescheduled. This input message allows the user to change the options specified when the GRC job was scheduled. If the GRC job has been split, SECT must be provided.

RDATE and RTIME should be specified together. If RDATE is provided without RTIME, RTIME defaults to midnight. If RDATE and RTIME are not provided or RTIME is specified without RDATE, the default is the current date and time.

Note: Use the SCHED:GRC message since it will replace this message.

2. FORMAT

```
GRC:RESCHED,NAME=a[,SECT=b],MODE=c[,VERBOSE=d][,MAXERR=e]
[,RDATE=ff-ff-ff,RTIME=gg-gg];
```

3. EXPLANATION OF MESSAGE

`a` = GRC name (up to 10 characters).

`b` = GRC section number.

`c` = Mode of job to be rescheduled. Valid value(s):
`BACKOUT` = Backout operation.
`UPDATE` = Update operation.

`d` = Print one-line logging messages on the receive-only printer (ROP) for each update or backout of a line for this GRC job. Valid value(s):
`N` = Disables the verbose option.
`Y` = Enables the verbose option.

`e` = Allow a maximum of this many errors.

`f` = Release date, in the form month-day-year.

`g` = Release time, in the form hour-minute.

4. SYSTEM RESPONSE

`NG` = No good. The request was denied. The GRC:ERROR output message provides the reason

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for the failure.

PF = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of the operation.

5. REFERENCES

Input Message(s):

```
SCHED:GRC
CLR:GRC
EXC:GRC
STP:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-070-100 *Administration and Engineering Guidelines*

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GRC:RMV

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the specified global recent change (GRC) job be removed from the switch. This input message deletes every file and directory associated with the job.

Note: Use the RMV:GRC message since it will replace this message.

2. FORMAT

```
GRC:RMV,NAME=a;
```

3. EXPLANATION OF MESSAGE

`a` = GRC name (up to 10 characters).

4. SYSTEM RESPONSE

`NG` = No good. The request was denied. The GRC:ERROR output message follows with an explanation of the problem.

`PF` = Printout follows. The request was accepted. If the remove operation successfully completes, the execution is followed by the GRC:STATUS output message. If it fails, the execution is followed by the GRC:ERROR output message.

5. REFERENCES

Input Message(s):

```
RMV:GRC
SCHED:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-251 *Recent Change Procedures*

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235-118-25x *Recent Change Reference*
235-070-100 *Administration and Engineering Guidelines*

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GRC:TEST-NAME

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) test update job be run to verify that the correct updates will be applied.

Caution: The GRC test update job DOES update the ODDs.

If the updates are not desired at this time, then when the GRC test update job is completed, backout the updates using the SCHED:GRC input message. After the backout is completed, then reschedule the GRC update job for its original time and date using the SCHED:GRC input message.

Note: Use the TST:GRC message since it will replace this message.

2. FORMAT

```
[1]    GRC:TEST,NAME=a[SECT=b],TN=c[-d];

[2]    GRC:TEST,NAME=a[,SECT=b],MLHG=e[-f][,MEMB=g[-h]];
```

3. EXPLANATION OF MESSAGE

`a` = GRC name (up to 10 characters).

`b` = GRC section number.

`c` = First telephone number (TN) in the range of lines to be tested.

`d` = Last TN in range of lines to be tested.

`e` = First multi-line hunt group (MLHG) number in range to be tested.

`f` = Last MLHG in range to be tested.

`g` = First MLHG member number to be tested.

`h` = Last MLHG member number to be tested.

4. SYSTEM RESPONSE

`NG` = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.

`PF` = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of

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the operation.

5. REFERENCES

Input Message(s):

```
REPT:GRC
RMV:GRC
SCHED:GRC
TST:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-070-100 *Administration and Engineering Guidelines*

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32. IF

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IF:UT-CMP-ENDIF

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Signifies the end of an IF-ELSE statement in the communication module processor (CMP) and must be used in combination with the IF:UT-CMP input message.

This message may also be used together with any of the other CMP generic utility input messages. Refer to the References section of this message. If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:CMP=a,ENDIF,{MATE|PRIM};
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby CMP.

`PRIM` = Execute this input message on the active CMP.

`a` = CMP number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
INH:UT-CMP
LOAD:UT-CMP
```

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```
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
IF:UT-CMP-ENDIF
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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IF:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a communication module processor's (CMP) memory be compared against another constant or variable in the CMP memory. The items being compared must be on the same processor. This message may be used together with an ELSE:UT-CMP input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

Note: The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then "anded" with the mask prior to the completion of the comparison (e.g. a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparision with h`00000080).

IF statements can be nested. The IF:UT-CMP-ENDIF input message is used to signify the end of each IF clause.

This message may be used together with any of the other CMP generic utility input messages (see the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:CMP=a,{MATE|PRIM}[,EA1],{ADDR1=b|GVAR1="c"|SYMIDX1=d|
REG1=e|UVAR1=f|VAL1=g}[,L1=h][,INDIR1=i][,OFF1=j[-j[-j]]]
[,MSK1=k],l[,EA2],{ADDR2=m|GVAR2="n"|SYMIDX2=o|REG2=p|UVAR2=q|
VAL2=r}[,L2=s][,INDIR2=t][,OFF2=u[-u[-u]]][,MSK2=v]{!|;}
```

3. EXPLANATION OF MESSAGE

`EA1` = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

`EA2` = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

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`MATE` = Execute this input message on the standby CMP.

`PRIM` = Execute this input message on the active CMP.

`a` = CMP number.

`b` = Address for the first part of the comparison.

`c` = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Register for the first part of the comparison. The following registers can be used:

- If switch CM complex is a Model 3, the registers are general purpose registers GPR0, GPR2-GPR31, SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, integer exception XER, external interrupt mask register EIMR (from module procssor), and the system management interrupt mask register SMIMR (from module processor).
- If switch CM complex is Model 2 or earlier, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, or status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

`f` = Utility variable for the first part of the comparison.

`g` = Constant value for the first part of the comparison.

`h` = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for utility variable (UVAR), constant value (VAL) and register (REG) unless REG is the status register which defaults to 2 bytes, and 1 byte for absolute address (ADDR), global variable (GVAR) and symbol index (SYMIDX). Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

`i` = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

`j` = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

`k` = Value of the mask to be "anded" with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

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`l` = Conditionals used for the comparison (default is EQ). Valid values are:

`EQ` = Equal to.

`GE` = Greater than or equal to.

`GT` = Greater than.

`LE` = Less than or equal to.

`LT` = Less than.

`NE` = Not equal to.

`m` = Address for the second part of the comparison.

`n` = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`o`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`o` Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`p` = Register for the second part of the comparison. The following registers can be used:

- If switch CM complex is a Model 3, the registers are general purpose registers GPR0, GPR2-GPR31, SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, integer exception XER, external interrupt mask register EIMR (from module procssor), and the system management interrupt mask register SMIMR (from module processor).
- If switch CM complex is Model 2 or earlier, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, or status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

`q` = Utility variable for the second part of the comparison.

`r` = Constant value for the second part of the comparison.

`s` = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. The maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

`t` = Level of indirection for the second part of the comparison (maximum of 3, default is 0).

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u = The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

v = Value of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
IF:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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IF:UT-MCTSI-PE

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the end of an IF-ELSE statement in the packet interface (PI) unit and must be used in combination with the IF:UT-MCTSI-PI input message.

Note: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:MCTSI=a-b,PI,ENDIF;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

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Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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IF:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a packet interface (PI) unit memory be compared against another constant or variable in the PI memory. The items being compared must be on the same processor. This message may be used together with an ELSE:UT-PI input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

Note: The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then "anded" with the mask prior to the completion of the comparison (e.g. a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparision with h`00000080).

If statements can be nested. The IF:UT-MCTSI-PE input message is used to signify the end of each IF clause.

Note: This input message is only supported on PIs of the PI2 hardware type.

This message may be used together with any of the other PI generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PI input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:MCTSI=a-b,PI[,EA1],{ADDR1=c|GVAR1="d"|SYMIDX1=e|REG1=f|
UVAR1=g|VAL1=h}[,L1=i][,INDIR1=j][,OFF1=k[-k[-k]]][,MSK1=l],m
[,EA2],{ADDR2=n|GVAR2="o"|SYMIDX2=p|REG2=q|,UVAR2=r|,VAL2=s}
[,L2=t][,INDIR2=u][,OFF2=v[-v[-v]]][,MSK2=w]{!|;}
```

3. EXPLANATION OF MESSAGE

EA1 = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

EA2 = The second part of the comparison will use the determined effective address of the specified

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field instead of the contents of the specified field.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Side of the module controller/time-slot interchange (MCTSI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Address for the first part of the comparison.

d = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

e Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the first part of the comparison.

g = Utility variable (UVAR) for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Constant value for the first part of the comparison.

i = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

j = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

k = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

l = Value of the mask to be "anded" with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

m = Conditionals used for the comparison (default is EQ). Valid value(s):

EQ = Equal to.

GE = Greater than or equal to.

GT = Greater than.

LE = Less than or equal to.

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LT = Less than.

NE = Not equal to.

n = Address for the second part of the comparison.

o = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'p' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

p Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

q = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the second part of the comparison.

r = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Constant value for the second part of the comparison.

t = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. The maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

u Level of indirection for the second part of the comparison (maximum of 3, default is 0).

v = The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

w = Value of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
```

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```
DUMP:UT-SYMID
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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IF:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory. The two items being compared must be the same byte size and on the same processor. This message may be used together with an ELSE:UT-PSUPH input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.
Note: The comparison is based on signed arithmetic.

IF statements can be nested. The IF:UT-PSUPH-END input message is used to signify the end of each IF clause.

Note: This input message is only supported on PSUPHs of the PH3/PH4 and later hardware types (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:PSUPH=a-b-c-d[,EA1],{ADDR1=e|GVAR1="f"|SYMIDX1=g|REG1=h|...
...UVAR1=i|VAL1=j}[,L1=k][,INDIR1=l][,OFF1=m[-m[-m]]][,MSK1=n],o...
...[,EA2],{ADDR2=p|GVAR2="q"|SYMIDX2=r|REG2=s|UVAR2=t|VAL2=u}...
...[,L2=v][,INDIR2=w][,OFF2=x[-x[-x]]][,MSK2=y]{!|;}
```

3. EXPLANATION OF MESSAGE

EA1 = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

EA2 = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

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a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address for the first part of the comparison.

f = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Register for the first part of the comparison. The following registers can be used:

- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

i = Utility variable (UVAR) for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Constant value for the first part of the comparison.

k = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. Maximum length in bytes is 4.

l = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

m = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

n = Value of the mask to be "anded" with the final value for the first part of the comparison.

o = Conditionals used for the comparison (default is EQ). Valid value(s):

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EQ = Equal to.
GE = Greater than or equal to.
GT = Greater than.
LE = Less than or equal to.
LT = Less than.
NE = Not equal to.

p = Address for the second part of the comparison.

q = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'r' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

r = Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

s = Register for the second part of the comparison. The following registers can be used:
- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

t = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Constant value for the second part of the comparison.

v = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. The maximum length in bytes is 4.

w = Level of indirection for the second part of the comparison (maximum of 3, default is 0).

x = The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

y = Value of the mask to be "anded" with the final value for the second part of the comparison.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
IF:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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IF:UT-PSUPH-B

Software Release: 5E16(1) - 5E20(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory. The items being compared must be on the same processor. This message may be used together with an ELSE:UT-PSUPH input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then "anded" with the mask prior to the completion of the comparison (such as, a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparison with h`00000080).

IF statements can be nested. The IF:UT-PSUPH-END input message is used to signify the end of each IF clause.

This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all other.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:PSUPH=a-b-c-d[,EA1],{ADDR1=e|GVAR1="f"|SYMIDX1=g|REG1=h|...
 ...UVAR1=i|VAL1=j}[,L1=k][,INDIR1=l][,OFF1=m[-m[-m]]][,MSK1=n],o...
 ...[,EA2],{ADDR2=p|GVAR2="q"|SYMIDX2=r|REG2=s|UVAR2=t|VAL2=u}...
 ...[,L2=v][,INDIR2=w][,OFF2=x[-x[-x]]][,MSK2=y]{!|;}
```

3. EXPLANATION OF MESSAGE

`EA1` = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

`EA2` = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

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a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address for the first part of the comparison.

f = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Register for the first part of the comparison. Valid value(s):

PSUPH Hardware Type:	**Registers:**
PHV5, PHV6, PH31, PHA2, or PHE2	GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. SP = Stack pointer SP (also known as GPR1). LR = Link register. PC = Program counter. CTR = Count register. CR = Condition register. MSR = Machine state register. XER = Exception register XER.
PH[3-4,6,22], PHA or PHV[1-4]	A0-A5 = Address registers. A6 = the frame pointer FP. A7 = Stack pointer SP. D0-D7 = Data registers. PC = Program counter. SR = Status register SR.

i = Utility variable (UVAR) for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Constant value for the first part of the comparison.

k = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the

comparison.

`l` = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

`m` = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

`n` = Value of the mask to be "anded" with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

`o` = Conditionals used for the comparison (default is EQ). Valid value(s):

- `EQ` = Equal to.
- `GE` = Greater than or equal to.
- `GT` = Greater than.
- `LE` = Less than or equal to.
- `LT` = Less than.
- `NE` = Not equal to.

`p` = Address for the second part of the comparison.

`q` = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`r`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`r` = Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`s` = Register for the second part of the comparison. Valid value(s):

PSUPH Hardware Type:	**Registers:**
PHV5, PHV6, PH31, PHA2, or PHE2	GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. SP = Stack pointer SP (also known as GPR1). LR = Link register. PC = Program counter. CTR = Count register. CR = Condition register. MSR = Machine state register. XER = Exception register XER.
PH[3-4,6,22], PHA or PHV[1-4]	A0-A5 = Address registers. A6 = the frame pointer FP. A7 = Stack pointer SP. D0-D7 = Data registers. PC = Program counter. SR = Status register SR.

t = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Constant value for the second part of the comparison.

v = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. The maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

w = Level of indirection for the second part of the comparison (maximum of 3, default is 0).

x = The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

y = Value of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
IF:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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IF:UT-PSUPH-C

Software Release: 5E21(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory. The items being compared must be on the same processor. This message may be used together with an ELSE:UT-PSUPH input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then "anded" with the mask prior to the completion of the comparison (such as, a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparison with h`00000080).

IF statements can be nested. The IF:UT-PSUPH-END input message is used to signify the end of each IF clause.

This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all other.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:PSUPH=a-b-c-d[,EA1],{ADDR1=e|GVAR1="f"|SYMIDX1=g|REG1=h|...
 ...UVAR1=i|VAL1=j}[,L1=k][,INDIR1=l][,OFF1=m[-m[-m]]][,MSK1=n],o...
 ...[,EA2],{ADDR2=p|GVAR2="q"|SYMIDX2=r|REG2=s|UVAR2=t|VAL2=u}...
 ...[,L2=v][,INDIR2=w][,OFF2=x[-x[-x]]][,MSK2=y]{!|;}
```

3. EXPLANATION OF MESSAGE

`EA1` = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

`EA2` = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

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a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address for the first part of the comparison.

f = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Register for the first part of the comparison. Valid value(s):

PSUPH Hardware Type:	Registers:
PH[3-4,6,22], PHA or PHV[1-4]	= Registers. Valid value(s): A0-A5 = Address registers. A6 = The frame pointer (FP). A7 = Stack pointer (SP). D0-D7 = Data registers. PC = Program counter. SR = Status register (SR).
All other PSUPH hardware types	GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. SP = Stack pointer SP (also known as GPR1). LR = Link register. PC = Program counter. CTR = Count register. CR = Condition register. MSR = Machine state register. XER = Exception register XER.

i = Utility variable (UVAR) for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Constant value for the first part of the comparison.

k = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. Maximum length in bytes is 4. It is suggested that

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the length and mask values being compared be of the same byte size on each side of the comparison.

`l` = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

`m` = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

`n` = Value of the mask to be "anded" with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

`o` = Conditionals used for the comparison (default is EQ). Valid value(s):

- `EQ` = Equal to.
- `GE` = Greater than or equal to.
- `GT` = Greater than.
- `LE` = Less than or equal to.
- `LT` = Less than.
- `NE` = Not equal to.

`p` = Address for the second part of the comparison.

`q` = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`r`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`r` = Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`s` = Register for the second part of the comparison. Valid value(s):

PSUPH Hardware Type:	Registers:
PH[3-4,6,22], PHA or PHV[1-4]	= Registers. Valid value(s): A0-A5 = Address registers. A6 = The frame pointer. A7 = Stack pointer. D0-D7 = Data registers. PC = Program counter. SR = Status register.
All other PSUPH hardware types	GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. SP = Stack pointer SP (also known as GPR1). LR = Link register.

	PC = Program counter. CTR = Count register. CR = Condition register. MSR = Machine state register. XER = Exception register XER.

t = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Constant value for the second part of the comparison.

v = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. The maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

w = Level of indirection for the second part of the comparison (maximum of 3, default is 0).

x = The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

y = Value of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

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Output Message(s):

```
IF:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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IF:UT-PSUPH-END-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.

Note: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may also be used with any of the other PSUPH generic utility input messages. Refer to the References section of this message.

If this message is used with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:PSUPH=a-b-c-d,ENDIF;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

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Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
IF:UT-PSUPH-END
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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IF:UT-PSUPH-END-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.

NOTE: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

This message may also be used with any of the other PSUPH generic utility input messages. Refer to the References section of this message.

If this message is used with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:PSUPH=a-b-c-d,ENDIF{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

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Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
IF:UT-PSUPH-END
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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IF:UT-SM-A

Software Release: 5E15 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a switching module's (SM) memory be compared against another constant or variable in the SM memory. This message may be used together with an ELSE:UT-SM input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

Note: The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then "anded" with the mask prior to the completion of the comparison (e.g. a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparision with h`00000080).

IF statements can be nested. The IF:UT-SM-ENDIF input message is used to signify the end of each IF clause.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:SM=a[,MATE1][,EA1]{,ADDR1=b|,GVAR1="c"|,SYMIDX1=d|
,REG1=e|,UVAR1=f|,VAL1=g}[,L1=h][,INDIR1=i][,OFF1=j[-j]-j]]]
[,MSK1=k],l[,MATE2][,EA2],{ADDR2=m|,GVAR2="n"|,SYMIDX2=o|
,REG2=p|,UVAR2=q|,VAL2=r}[,L2=s][,INDIR2=t][,OFF2=u[-u[-u]]]
[,MSK2=v]{!|;}
```

3. EXPLANATION OF MESSAGE

`EA1` = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

`EA2` = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

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`MATE1` = The specified field used for the first part of the comparison is from the mate memory. The default is active memory.

`MATE2` = The specified field used for the second part of the comparison is from the mate memory. The default is active memory.

`a` = SM number.

`b` = Address for the first part of the comparison.

`c` = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the first part of the comparison.

`f` = Utility variable for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Constant value for the first part of the comparison.

`h` = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

`i` = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

`j` = The offset, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535 (default is 0). However, offsets greater than 32767 will be treated as negative offsets.

`k` = Contents of the mask to be "anded" with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

`l` = Conditionals used for the comparison (default is EQ). Valid value(s):

- `EQ` = Equal to.
- `GE` = Greater than or equal to.
- `GT` = Greater than.
- `LE` = Less than or equal to.

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LT = Less than.

NE = Not equal to.

m = Address for the second part of the comparison.

n = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'o' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

o Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

p = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the second part of the comparison.

q = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Constant value for the second part of the comparison.

s = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

t = Level of indirection for the second part of the comparison (maximum of 3, default is 0).

u = The offset, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

v = Contents of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
```

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```
END:UT-SM
EXC:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
IF:UT-SM
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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IF:UT-SM-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a switching module's (SM) memory be compared against another constant or variable in the SM memory. This message may be used together with an ELSE:UT-SM input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then "anded" with the mask prior to the completion of the comparison (such as, a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparison with h`00000080).

IF statements can be nested. The IF:UT-SM-ENDIF input message is used to signify the end of each IF clause.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:SM=a[,MATE1][,EA1]{,ADDR1=b|,GVAR1="c"|,SYMIDX1=d|...
 ...,REG1=e|,UVAR1=f|,VAL1=g}[,L1=h][,INDIR1=i][,OFF1=j[-j]-j]]]...
 ...[,MSK1=k],l[,MATE2][,EA2],{ADDR2=m|,GVAR2="n"|,SYMIDX2=o|...
 ...,REG2=p|,UVAR2=q|,VAL2=r}[,L2=s][,INDIR2=t][,OFF2=u[-u[-u]]]...
 ...[,MSK2=v]{!|;}
```

3. EXPLANATION OF MESSAGE

`EA1` = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

`EA2` = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

`MATE1` = The specified field used for the first part of the comparison is from the mate memory. The

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default is active memory.

MATE2 = The specified field used for the second part of the comparison is from the mate memory. The default is active memory.

a = SM number.

b = Address for the first part of the comparison.

c = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Register for the first part of the comparison. Valid value(s):

SM Software Configuration:	Registers:
CNFG2KPPC	CR = Condition register. CTR = Count register. GPR0 = General purpose register. GPR2-GPR31 = General purpose registers. LR = The link register. MSR = Machine state register. PC = Program counter. SP = Stack pointer register (also known as GPR1). XER = The external interrupt mask register (integer exception).
Not CNFG2KPPC	A0-A5 = Address registers. A6 = The frame pointer (FP). A7 = The stack pointer (SP). D0-D7 = Data registers. PC = Program counter. SR = Status register.

This option can only be used as part of a generic utilities WHEN input message clause.

f = Utility variable for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Constant value for the first part of the comparison.

h = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

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`i` = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

`j` = The offset, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535 (default is 0). However, offsets greater than 32767 will be treated as negative offsets.

`k` = Contents of the mask to be "anded" with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

`l` = Conditionals used for the comparison (default is EQ). Valid value(s):

- `EQ` = Equal to.
- `GE` = Greater than or equal to.
- `GT` = Greater than.
- `LE` = Less than or equal to.
- `LT` = Less than.
- `NE` = Not equal to.

`m` = Address for the second part of the comparison.

`n` = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`o`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`o` = Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`p` = Register for the second part of the comparison. Valid value(s):

SM Software Configuration:	**Registers:**
CNFG2KPPC	`GPR0` = General purpose register. `GPR2-GPR31` = General purpose registers. `SP` = Stack pointer register (also known as GPR1). `LR` = The link register. `PC` = Program counter. `CTR` = Count register. `CR` = Condition register. `MSR` = Machine state register. `XER` = The external interrupt mask register (integer exception).
Not CNFG2KPPC	`A0-A5` = Address registers. `A6` = The frame pointer (FP). `A7` = The stack pointer (SP). `D0-D7` = Data registers. `PC` = Program counter. `SR` = Status register.

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This option can only be used as part of a generic utilities WHEN input message clause.

`q` = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Constant value for the second part of the comparison.

`s` = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

`t` = Level of indirection for the second part of the comparison (maximum of 3, default is 0).

`u` = The offset, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

`v` = Contents of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
IF:UT-SM
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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IF:UT-SM-ENDIF

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the end of an IF-ELSE statement be signified in the switching module (SM) and must be used together with the IF:UT-SM input message.

This message may also be used together with any of the other SM generic utility input messages. Refer to the References section of this message. If this message is used together with any of the other SM generic utility input messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
IF:UT:SM=a,ENDIF{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

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Output Message(s):

```
IF:UT-SM-ENDIF
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

33. IN

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IN:DTIME

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Overrides the administrative module (AM) default generic access package (GRASP) dynamic real-time limit with a specified limit until the specified clock time or the end of the debugging session, whichever occurs first.

2. FORMAT

```
IN:DTIME=a:UNTIL=b;
```

3. EXPLANATION OF MESSAGE

`a` = Real time allowed to GRASP, specified in decimal (1-100).

`b` = Clock time when override will expire; specified as a 24-hour clock time (for example, 1535 equals 3:35 p.m.).

4. SYSTEM RESPONSE

`OK` = Good. The request was received and has been processed.

`RL` = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

`?A` = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. Includes the following:
- `INVALID KEYWORD` = Not a valid action in a WHEN action list.

`?I` = General syntax error, or one of the following errors:
- `RANGE ERROR (DTIME)` = Dynamic time value is out of range.
- `RANGE ERROR (UNTIL)` = Invalid 24-hour clock time is specified.

5. REFERENCES

Input Message(s):

```
OP:UMEM
```

Output Message(s):

```
REPT:GRASP
```

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IN:F-APND

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Appends one line of user-supplied text at a specified location in a regular ASCII file. Directory and special device files cannot be edited.

Note: All file editing should proceed from the highest numbered line towards the lowest numbered line; otherwise, multiple edits could cause errors.

WARNING: Insertion of incorrect data may make the file unusable.

2. FORMAT

```
IN:FILE,APND,FN="a",LINE=b!
"c";
```

3. EXPLANATION OF MESSAGE

`a` = Full pathname that specifies the file. Upon successful completion of the edit, a file called a.bk, where '`a`' is the file name entered, will contain the data in file '`a`' prior to the edit. Should the edit be unsuccessful, the a.bk file will either contain the same data as the original file, or it will not exist.

`b` = Number of the line at which the input is to be appended. If the line number specified is larger or smaller than the number of lines in the file, the new line will be appended at the end of the file. Entering zero as the line number will insert the line of text before the first line of the file. If the file does not exist, entering zero in the line number will create the file.

`c` = User-supplied text. Entered on a separate line after entering the continuation character and receiving the acknowledgement '`IP`'. The maximum length is 511 characters.

The text must be enclosed in quotation marks, otherwise data may be lost and misleading error messages printed.

4. SYSTEM RESPONSE

`IP` = In progress. The request was received and has been initiated.

`PF` = Printout follows. Followed by the IN:F-APND output message.

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5. REFERENCES

Output Message(s):

IN:F-APND

IN:F-DEL

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Deletes one or more lines from a regular ASCII file. Directory files and special device files cannot be edited.

Note: All file editing should proceed from the highest numbered line towards the lowest numbered line; otherwise multiple edits could cause errors.

WARNING: All existing data in the targeted lines of the file will be destroyed.

2. FORMAT

```
IN:FILE,DEL,FN="a",LINE=b[&&c];
```

3. EXPLANATION OF MESSAGE

`a` = Full pathname of the file. Upon successful completion of the edit, a file called 'a.bk', where 'a' is the filename entered, will contain the data in file 'a' prior to the edit. Should the edit be unsuccessful, the 'a.bk' file will either contain the same data as the original file, or it will not exist.

`b` = Number of the first (or only) line to be deleted. If the line number specified is larger than the number of lines in the file, the last line of the file is assumed.

`c` = Last line number of a range of lines to be deleted. If the line number specified is out of the range, the last line of the file is assumed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the IN:F-DEL output message.

5. REFERENCES

Input Message(s):

```
DUMP:F-ALL
DUMP:F-PARTL
IN:F-APND
IN:F-REPL
```

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Output Message(s):

```
DUMP:F-ALL
DUMP:F-PARTL
IN:F-APND
IN:F-DEL
IN:F-REPL
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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IN:F-REPL

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Replaces one or more lines of a regular ASCII file with one line of user-supplied text. Directory files and special device files cannot be edited.

Note: All file editing should proceed from the highest numbered line towards the lowest numbered line; otherwise, multiple edits could cause errors.

WARNING: All existing data in the targeted lines of the file will be destroyed. Insertion of incorrect data may make the file unusable.

2. FORMAT

```
IN:FILE,REPL,FN="a",LINE=b[&&c]!
"d";
```

3. EXPLANATION OF MESSAGE

`a` = Full pathname of the file. Upon successful completion of the edit, a file called a.bk, where '`a`' is the file name entered, will contain the data in file '`a`' prior to the edit. Should the edit be unsuccessful, the a.bk file will either contain the same data as the original file, or it will not exist.

`b` = First or only line number of the lines to be replaced. If the line number specified is out of the range, the last line in the file will be replaced by the line "`d`".

`c` = Last line number of a range of lines to be replaced. If out of range, the last line of the file is assumed.

`d` = User-supplied text. Entered on a separate line after entering the continuation character and receiving the acknowledgement 'IP'. Terminated by the execution character. Maximum length is 511 characters.

The text must be enclosed in quotation marks; otherwise, data may be lost and misleading error messages printed.

4. SYSTEM RESPONSE

`IP` = In progress. The request was received and has been initiated.

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`PF` = Printout follows. Followed by the IN:F-REPL output message.

5. REFERENCES

Input Message(s):

```
DUMP:F-ALL
DUMP:F-PARTL
IN:F-APND
IN:F-DEL
```

Output Message(s):

```
DUMP:F-ALL
DUMP:F-PARTL
IN:F-APND
IN:F-DEL
IN:F-REPL
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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IN:FSYS-DIR

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Creates a specified directory with read, write, and execute permissions for the owner, group and others (mode 777).

2. FORMAT

```
IN:FILESYS,DIR,FN="a";
```

3. EXPLANATION OF MESSAGE

`a` = Full pathname of the directory to be created.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the IN:FSYS-DIR output message.

5. REFERENCES

Input Message(s):

```
CLR:FSYS-DIR
CLR:FSYS-FILE
```

Output Message(s):

```
IN:FSYS-DIR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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IN:OFR-PARM

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Inputs all internal operating and scheduling parameters of the online office records control process. These parameters affect the print requests of the OP:OFR input messages.

2. FORMAT

```
IN:OFR:PARM[,HR=a][,LNG=b][,ONDAY=c][,OFFDAY=d][,ENAB=e];
```

3. EXPLANATION OF MESSAGE

`a` = Hour at which printing of automatically generated changed pages or delayed requests begin.

`b` = Length of time (in hours) that may be used at one time to print automatically generated changed pages or delayed requests.

`c` = Days on which automatic printing of changed pages may occur (MON, TUE, WED, THU, or FRI).

If more than one day is specified, a list format should be used. Example:
`ONDAY=MON-TUE-WED`

`d` = Days on which automatic printing of changed pages may not occur.

If more than one day is specified, a list format should be used.

`e` = Changed page recording enable flag (YES or NO).

4. SYSTEM RESPONSE

`IP` = In progress. Followed by an OP:OFR-STATUS or an IN:OFR-PARM output message.

5. REFERENCES

Input Message(s):

```
OP:OFR-CAT
OP:OFR-FORM
OP:OFR-STATUS
```

Output Message(s):

```
IN:OFR-PARM
OP:OFR-STATUS
```

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IN:REMOTE-REPT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a report about the current status of the active file receiving process.

2. FORMAT

```
IN:REMOTE,REPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was successfully invoked.

`RL` = Retry later. Valid value(s):
- `BAD MEMORY ALLOCATION` = Request cannot be executed due to insufficient memory.

5. REFERENCES

Input Message(s):

```
IN:REMOTE-START
IN:REMOTE-STOP
```

Output Message(s):

```
IN:REMOTE
IN:REMOTE-ERROR
IN:REMOTE-INIT
IN:REMOTE-START
IN:REMOTE-STOP
UPD:CLR
UPD:VFY
```

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IN:REMOTE-START

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administrative module (AM) be put in the remote-file-receive mode. This message should be entered immediately before ordering delivery of software update files from the Software Change Administration and Notification System (SCANS-2), so that the transaction ID displayed in the IN REMOTE output message can be supplied in the order to SCANS-2. Software updates must begin to arrive at the administrative module within 24hours. Response messages are printed when they are initially received or when this time limit is reached.

2. FORMAT

```
IN:REMOTE,START[,BSDIR="a"][,BLOCKS=b][,VLEV=c];
```

3. EXPLANATION OF MESSAGE

`a` = Full pathname of the base directory into which the received files are stored. Default= /etc/bwm.

`b` = Number of blocks. The base directory is checked to ensure that at least '`b`' blocks of space are available. Default= 100.

`c` = Verbose level (0-546048). The only value of '`c`' that has any effect is 1, which prints the version number of the file receive process. Default= 0.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message has been successfully invoked. Followed by the IN:REMOTE-INIT output message.

`RL` = Retry later. Valid value(s):
- `BAD MEMORY ALLOCATION` = Request cannot be executed due to insufficient memory.

5. REFERENCES

Input Message(s):

```
IN:REMOTE-REPT
IN:REMOTE-STOP
```

Output Message(s):

```
IN:REMOTE
```

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```
IN:REMOTE-ERROR
IN:REMOTE-INIT
IN:REMOTE-START
IN:REMOTE-STOP
UPD:CLR
UPD:VFY
```

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IN:REMOTE-STOP

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the input of update files be terminated from a remote source. If file transmission has begun, a session-disconnect message is sent to the remote end to notify the Software Change Administration and Notification System (SCANS-2) of the termination.

2. FORMAT

```
IN:REMOTE,STOP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message has been successfully invoked. Followed by the IN:REMOTE-STOP or the IN:REMOTE-ERROR output message.

`RL` = Retry later. Valid value(s):
- `BAD MEMORY ALLOCATION` = Request cannot be executed now due to insufficient memory.

5. REFERENCES

Input Message(s):

```
IN:REMOTE-REPT
IN:REMOTE-START
```

Output Message(s):

```
IN:REMOTE
IN:REMOTE-ERROR
IN:REMOTE-INIT
IN:REMOTE-START
IN:REMOTE-STOP
UPD:CLR
UPD:VFY
```

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IN:XFER

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests that the remote file transfer system be started, stopped or status be reported. The remote file transfer system resides in the administrative module (AM). When this system is running, files may be transferred between it and a special support computer. This system may be used to recover files that have been lost or corrupted.

2. FORMAT

```
IN:XFER:{START|STOP|REPT};
```

3. EXPLANATION OF MESSAGE

`START` = Start the remote file transfer system. Once started, the system is active for one transaction, 24 hours, or until stopped, whichever occurs first.

`STOP` = Stop the remote file transfer system.

`REPT` = Report on the state of the remote file transfer system.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `NOT ACTIVATED` = System is not running.
- `PREVIOUS PASSWORD HAS EXPIRED` = System was previously started but the 24-hour time limit expired without an attempt to use it.

`OK` = Good. System has been stopped. Valid value(s):
- `PASSWD = a` = System has been started. Report the password '`a`' to the support person who requested this input message be entered.
- `PASSWD = b, EXPIRES c` = System is running. Report the password '`b`' and the expiration time '`c`' to the support person who requested this input message be entered.

`PF` = Printout follows. Followed by the IN:XFER output message.

5. REFERENCES

Output Message(s):

`IN:XFER`

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34. INH

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INH:ACSR

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that automatic customer station rearrangement (ACSR) requests not be added nor deleted from the ACSR queue.

2. FORMAT

```
INH:ACSR,{ENQ|DEQ|ALL};
```

3. EXPLANATION OF MESSAGE

`ENQ` = Inhibit adding (enqueueing) of ACSR requests.

`DEQ` = Inhibit deleting (dequeueing) of ACSR requests.

`ALL` = Inhibit adding and deleting of ACSR requests.

4. SYSTEM RESPONSE

`OK` = Good. ACSR enqueueing or dequeueing inhibit request was received.

5. REFERENCES

Input Message(s):

```
ALW:ACSR
OP:STAT
```

Output Message(s):

```
OP:STAT
```

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INH:ALE-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests inhibition of the options utilized for the operation of the automatic line evaluation (ALE) system and protocol error record (PER) reporting and generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

The parameters are grouped into three classes.

A = Automatic ALE session output controls

The parameters `LEVEL2`, `PRINT`, and `PER=REPT` allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requeste d ALE session.

The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.

B = Switching module (SM) controls

The SM parameters control the behavior of the level 1 performance monitori ng and PER generation.

If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for any U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL.

All automatically generated reports are inhibited immediately. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes.

If the PER generation parameter is inhibited, then no PERs will be recorde d for any integrated services digital network (ISDN) protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel.

C = Line/trunk controls

Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks.

The level 1 control parameters for U-interface DSLs are manipulated using the RC/V Views 8.1 and 22.15 for performance monitoring group definitions.

If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel.

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Format 1 is used to inhibit the automatic session controls. Format 2 is used to inhibit the SM control parameters. Format 3 is used to inhibit the PER generation for a ISDN protocol channel.

For example, the input message

```
INH:ALE,LEVEL2,PER=REPT,PRINT
```

will inhibit the LEVEL2, PER=REPT, and PRINT controls prohibiting the execution of the LEVEL2 and PER jobs for automatically initiated ALE sessions. In addition, this message requests that the results from the automatic session not be printed on the receive-only printer (ROP).

For example, the input message

```
INH:ALE,PER=GEN,SM=7
```

will inhibit the PER generation control that enables the collection of PERs on SM 7.

The input message

```
INH:ALE,PER=GEN,DN=2204000
```

will inhibit the PER generation control that enables the collection of PERs for the D-channel associated with the DSL for DN 2204000.

2. FORMAT

```
[1]    INH:ALE{[,LEVEL2][,PRINT][,PER=REPT]};

[2]    INH:ALE,SM=a[&&b]{[,LEVEL1][,PER=GEN]};

[3]    INH:ALE,c[,CH=a[1]],PER=GEN;
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

LEVEL1	= Inhibit level 1 performance monitoring for the indicated SM. The default is level 1 allowed.
LEVEL2	= Inhibit level 2 error counts. These counters exist in the protocol handler (PH). Inhibiting level 2 automatic ALE will prevent packet error counts and automatically reset the counters. The default is level 2 allowed.
PER=GEN	= Inhibit PER generation for the indicated SM or channel. The default is that PER generation is allowed for the indicated SM or channel.
PER=REPT	= Inhibit PER reporting for the automatically requested ALE sessions. The default is that PER reporting is allowed. Set the specified protocol error record (PER) parameters.
PRINT	= Send output to the ROP. All other output will be sent to the message class PRFMMON. The default is ROP output allowed.
a	= SM number, or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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b = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line identification. Valid value(s):

AIUEN=f-m[1]-n[1]-o[1]
BST=d-e
DEN=f-g-h-i
DN=j
DNUSEOC=f-h[1]-r-s
DNUSTMC=f-h[1]-r-s
DSLGM=f-b[1]-k-l
IDCUEOC=f-z-r-s
IDCUTMC=f-z-r-s
ILEN=f-z-r-t
INEN=f-h[1]-r-t
LCEN=f-m-n-o
LCKEN=f-e[1]-r-f[1]-g[1]
MLHG=p-q
NEN=f-h[1]-i[1]-p[1]-j[1]-k[1]-q[1]-l[1]
OAPO=d
OPT=d-e
PKTDN=j
PLTEN=f-r[1]-s[1]-t[1]-u[1]
PSUEN=f-b[1]-c[1]-d[1]-l
PORT=f-u
RTRS=v-w
TKGMN=x-y
VBRI=f-v[1]
VTRK=f-w[1]-x[1]

d = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = The directory number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with

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DSLs.

`k` = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Channel type to be inhibited (valid only for LCEN and LCKEN line identifications). Valid value(s):

`B1` = Channel B1.
`B2` = Channel B2.

`D` = D-channel (default).

`b`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`s`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. This message was not recognized, or was not acceptable. May also include:
- `ALE FEATURE NOT LOADED` = The ALE feature in not loaded in the switch software configuration.
- `COMMUNICATION FAILURE` = A system error has occurred.
- `INVALID INPUT` = Parameter to inhibit does not match entity to inhibit. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `PROCESS CREATION FAILURE` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

`OK` = Good. Requested parameter has been allowed.

`PF` = Printout follows. Requested parameter inhibit has been initiated and an INH:ALE message will follow.

`RL` = Retry later. May also include:
- `AM IN MIN MODE` = The AM is in minimum operation mode.
- `REQUEST ALREADY IN PROGRESS` = An ALE allow request is already running. Only one inhibit request is permitted at a time.

5. REFERENCES

Input Message(s):

```
ALW:ALE
EXC:ALE
OP:ALE
```

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Output Message(s):

```
ALW:ALE
EXC:ALE
INH:ALE
OP:ALE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110	*System Maintenance Requirements and Tools*
235-105-220	*Corrective Maintenance*
235-600-755	*Protocol Error Record Descriptions*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
22.15	PERFORMANCE MONITORING THRESHOLD GROUP

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INH:ALE-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests inhibition of the options utilized for the operation of the automatic line evaluation (ALE) system and protocol error record (PER) reporting and generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

The parameters are grouped into three classes.

Class	Definition
Automatic ALE session output controls	The parameters LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session. The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.
Switching module (SM) controls	The SM parameters control the behavior of the level 1 performance monitoring and PER generation. If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for any U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL. All automatically generated reports are inhibited immediately. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes. If the PER generation parameter is inhibited, then no PERs will be recorded for any integrated services digital network (ISDN) protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel. After the introduction of PCF on PHE2 feature, ALE is not to provide performance monitoring error count information on A10/A11/ETHERNET protocols, but is able to provide the protocol error histories on A10/A11/ETHERNET protocols on PCF PH. There are two kind of PERs: level 2 and level 7. Level 2 PER retrieves the ethernet protocol error histories stored in the PH. Level 7 retrieves A10/A11 error histories stored in PH. If the PER generation parameter is inhibited, then no PERs will be recorded for PCF PH on the SM as well. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel and the PCF PH determines if PERs are recorded for that channel or PH.
Line/trunk controls	Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks. After the introduction of PCF on PHE2 feature, the PER generation parameter applies to

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	the PCF PH as well. The level 1 control parameters for U-interface DSLs are manipulated using the RC/V Views 8.1 and 22.15 for performance monitoring group definitions. If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel.
INH:ALE,LEVEL2, PER=REPT,PRINT	Will inhibit the LEVEL2, PER=REPT, and PRINT controls prohibiting the execution of the LEVEL2 and PER jobs for automatically initiated ALE sessions. In addition, this message requests that the results from the automatic session not be printed on the ROP.
INH:ALE,PER=GEN,SM=7	Will inhibit the PER generation control that enables the collection of PERs on SM 7, for both ISDN channels and PCF PH.
INH:ALE,PER=GEN, DN=2204000	Will inhibit the PER generation control that enables the collection of PERs for the D-channel associated with the DSL for DN 2204000.
INH:ALE,PER=GEN, PCFIP=193.192.193.193	Will inhibit the PER generation control that enables the collection of PERs for the PCF PH associated with the IP address 193.192.193.193.

2. FORMAT

[1] INH:ALE{[,LEVEL2][,PRINT][,PER=REPT]};

---

[2] INH:ALE,SM=a[&&b]{[,LEVEL1][,PER=GEN]};

---

[3] INH:ALE,c[,CH=a^1],PER=GEN;

---

[4] INH:ALE,PCFIP=y^1-y^1-y^1-y^1,PER=GEN;

---

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

LEVEL1 = Inhibit level 1 performance monitoring for the indicated SM. The default is level 1 allowed.

LEVEL2 = Inhibit level 2 error counts. These counters exist in the protocol handler (PH). Inhibiting level 2 automatic ALE will prevent packet error counts and automatically reset the counters. The default is level 2 allowed.

PER=GEN = Inhibit PER generation for the indicated SM or channel. The default is that PER generation is allowed for the indicated SM or channel.

PER=REPT = Inhibit PER reporting for the automatically requested ALE sessions. The default is that PER reporting is allowed. Set the specified protocol error record (PER) parameters.

PRINT = Send output to the ROP. All other output will be sent to the message class PRFMMON. The default is ROP output allowed.

a = SM number, or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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b = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line identification. Valid value(s):

```
AIUEN=f-m[1]-n[1]-o[1]
BST=d-e
DEN=f-g-h-i
DN=j
DNUSEOC=f-h[1]-r-s
DNUSTMC=f-h[1]-r-s
DSLGM=f-b[1]-k-l
IDCUEOC=f-z-r-s
IDCUTMC=f-z-r-s
ILEN=f-z-r-t
INEN=f-h[1]-r-t
LCEN=f-m-n-o
LCKEN=f-e[1]-r-f[1]-g[1]
MLHG=p-q
NEN=f-h[1]-i[1]-p[1]-j[1]-k[1]-q[1]-l[1]
OAPO=d
OIUEN=f-z[1]-a[2]-b[2]-c[2]-k[1]-q[1]-l[1]
OPT=d-e
PKTDN=j
PLTEN=f-r[1]-s[1]-t[1]-u[1]
PSUEN=f-b[1]-c[1]-d[1]-l
PORT=f-u
RTRS=v-w
TKGMN=x-y
VBRI=f-v[1]
VTRK=f-w[1]-x[1]
```

d = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = The directory number. Refer to the APP:RANGES appendix in the Appendixes section of the

Input Messages manual. This parameter can only be used to identify channels associated with DSLs.

`k` = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Channel type to be inhibited (valid only for LCEN and LCKEN line identifications). Valid value(s):

`B1` = Channel B1.

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B2 = Channel B2.
D = D-channel (default).

b[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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s[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = IP address field. Valid value is 0-255.

z[1] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[2] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[2] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. This message was not recognized, or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature in not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred.
- INVALID INPUT = Parameter to inhibit does not match entity to inhibit. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- PROCESS CREATION FAILURE = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

OK = Good. Requested parameter has been allowed.

PF = Printout follows. Requested parameter inhibit has been initiated and an INH:ALE message will follow.

RL = Retry later. May also include:

- AM IN MIN MODE = The AM is in minimum operation mode.
- REQUEST ALREADY IN PROGRESS = An ALE allow request is already running. Only one inhibit request is permitted at a time.

5. REFERENCES

Input Message(s):

```
ALW:ALE
EXC:ALE
OP:ALE
```

Output Message(s):

```
ALW:ALE
EXC:ALE
INH:ALE
OP:ALE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110	*System Maintenance Requirements and Tools*
235-105-220	*Corrective Maintenance*
235-600-755	*Protocol Error Record Descriptions*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
22.15	PERFORMANCE MONITORING THRESHOLD GROUP

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INH:ALM

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that alarm reporting on a scan point be inhibited, according to type. Formats 1 and 2 are for alarms assigned to input/output processor (IOP) scan points. Format 3 is for those assigned to remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) metallic service unit (MSU) scan points and is available only in a multimodule RSM, ORM or TRM that has the alarm input option. Format 4 is for alarms assigned to remote alarm section (RAS) scan points. Format 5 is for alarms assigned to expansion access interface unit (EAIU) scan points.

2. FORMAT

```
[1]    INH:ALM,{BPSC=a|MFFUSE=b|MISC=c};

[2]    INH:ALM,ESM;

[3]    INH:ALM,RBPSC=d,SM=e;

[4]    INH:ALM,RAS,SCPT=f,SITE=g;

[5]    INH:ALM,EAIU=e-h,SCPT=f;
```

3. EXPLANATION OF MESSAGE

`ESM` = External sanity monitor.

`SCPT` = Scan point.

`a` = Building/power scan point (BPSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Miscellaneous frame fuse (MFFUSE) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Miscellaneous (MISC) IOP scan point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Remote building/power scan point (RBPSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Switching module (SM) number.

`f` = Scan point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Remote peripheral site number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`h` = EAIU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Invalid scan point, SM, or site number; or option not available.

`PF` = Printout follows. Followed by the INH:ALM output message.

`RL` = Retry later. Unable to process request or unable to communicate with SM.

5. REFERENCES

Input Message(s):

`ALW:ALM`

Output Message(s):

`ALW:ALM`
`INH:ALM`
`REPT:ALM`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

105/106 (BLDG/POWER & ALARM CNTRLS)
119 (MISCELLANEOUS ALARMS)
1400 (RSM BLDG/PWR ALARMS)
1420 (RAS ALARMS)
1640 (REMOTE PERPH MISC ALARMS)

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INH:AMA-AUTOST

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that automatic message accounting (AMA) automatic tape writing sessions be inhibited.

2. FORMAT

```
INH:AMA:AUTOST[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.
Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`IP` = In progress. Request accepted and in progress. The AMA monitor process has been called to manually block automatic AMA tape writing sessions. When the request is complete, the contents of the AMA control file will be output.

`NG` = No good. Data stream checks failed.

`RL` = Retry later. A message could not be sent to the AMA monitor process.

5. REFERENCES

Input Message(s):

```
ALW:AMA-AUTOST
OP:AMA-CONTROLF
OP:AMA-STREAM
```

Output Message(s):

```
REPT:AMA-CONT
```

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INH:AMA-SESSION

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that all automatic message accounting (AMA) sessions be inhibited or the writing of AMA tapes be prevented.

2. FORMAT

```
INH:AMA:SESSION[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.
Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`IP` = In progress. Request is in progress. All AMA teleprocessing sessions will be rejected if the teleprocessing option is in effect. No AMA tapes will be written or verified if the tape option is in effect. When the request is complete, the contents of the AMA control file will be output.

`NG` = No good. Data stream checks failed.

`RL` = Retry later. The AMA monitor process could not be invoked to process the request.

5. REFERENCES

Input Message(s):

```
ALW:AMA-SESSION
OP:AMA-CONTROLF
OP:AMA-STREAM
```

Output Message(s):

```
REPT:AMA-CONT
```

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INH:AMAIRR

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Inhibits the printing of data related to an automatic message accounting irregularity (AMAIRR).

2. FORMAT

```
INH:AMAIRR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK	= Good. The request has been received. No subsequent reports will be generated for automatic message accounting irregularities.

5. REFERENCES

Input Message(s):

```
ALW:AMAIRR
```

Output Message(s):

```
REPT:AMAIRR
```

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INH:AMALOST

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of data related to lost automatic message accounting (AMALOST) records be stopped.

2. FORMAT

```
INH:AMALOST;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK	= Good. The request has been received. All subsequent occurrences of lost AMA records will not print an information report (REPT:AMALOST).

5. REFERENCES

Input Message(s):

```
ALW:AMALOST
```

Output Message(s):

```
REPT:AMALOST
REPT:AMATRC
```

Other Manual(s):
235-190-101 *Business and Residence Modular Features*

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INH:AMATRC

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Format 1 requests that the printing of automatic message accounting (AMA) records be inhibited for a matching active trace directory number (DN) (that is, DN and PS option are equal).

Format 2 requests that the printing of AMA records be inhibited for all existing trace DN(s).

Format 3 requests that the printing of AMA records no longer go to the AMTRCLOG log file. This applies to all existing trace DN(s).

2. FORMAT

```
[1]    INH:AMATRC:DN=a[,PS];

[2]    INH:AMATRC:ALL;

[3]    INH:AMATRC:FILE;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = Inhibit tracing on all DN(s) previously entered for tracing.

`FILE` = Requests that AMATRC output no longer be placed in the AMATRC Log File.

`a` = A seven- or ten-digit directory number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID DIGIT ENTERED` = Only digits, no alpha or special characters are accepted.
- `NO EXISTING DN ENTRIES` = There are currently no existing DNs for which an AMATRC is currently being performed.
- `NO MATCH FOUND` = DN entered did not match any existing DN for which an AMATRC is currently being performed. OP:AMATRC will show all existing DN(s).
- `SEVEN OR TEN DIGITS REQUIRED` = Either seven or ten digits are required to perform the trace.

`OK` = Good. The request has been received.

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5. REFERENCES

Input Message(s):

```
ALW:AMATRC
OP:AMATRC
```

Output Message(s):

```
REPT:AMATRC
OP:AMATRC
```

Other Manual(s):
235-190-300 *Billing Features and Specifications*

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INH:AUD-CMP

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic execution of an audit or the routine execution of the audit cycle be inhibited in one communication module processor (CMP).

The inhibition of the audit cycle is phase protected. Once the audit cycle has been inhibited, it will remain inhibited even through system phases. An individual audit inhibit is not phase protected and can only be set after the processor is cycling normally. A high level initialization will have the effect of allowing a previously inhibited audit to run.

2. FORMAT

```
INH:AUD[=a],CMP=b;
```

3. EXPLANATION OF MESSAGE

`a` = Item to be audited. Valid value(s):
`Audit ID`
`CYCLE` = Inhibit the routine execution of the audit cycle. (Default)

`b` = CMP number (such as, 0).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `AUDIT NOT AVAILABLE IN CMP` = The request has been denied because the audit specified in the '`a`' variable does not exist in the CMP.
- `INVALID CMP` = No good. The specified CMP does not exist.

`OK` = Good. The request has been received and completed. Audit or cycle has been inhibited.

5. REFERENCES

Input Message(s):

`ALW:AUD`

Other Manual(s):
235-600-400 *Audits*

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INH:AUD-ENV

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Inhibits the automatic execution of a kernel process environment (OKP or SMKP) audit or the routine execution of the cycle in the administrative module (AM). The inhibit for the audit cycle is phase-protected. That is, once the audit cycle has been inhibited, it will remain inhibited even through system phases. An individual audit inhibit is not phase-protected and can only be set after the processor is up. A phase will have the effect of allowing previously inhibited audits to run.

2. FORMAT

```
INH:AUD[=a],ENV=b;
```

3. EXPLANATION OF MESSAGE

`a` = Audit ID for an application audit.
`CYCLE` = Routine audit cycle. This is the default.

`b` = The kernel process. Valid value(s):
`OKP` = Operational kernel process.
`SMKP` = Switch maintenance kernel process.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ARGUMENT FOR ENV MISSING` = The request has been denied because neither OKP nor SMKP were specified for variable '`b`'.
- `AUDIT NOT AVAILABLE IN SPECIFIED ENV` = The request has been denied because the specified audit is not available in the requested kernel process.
- `SM TYPE NOT VALID FOR THIS REQUEST` = The request has been denied because an SM type (RSM, LSM, or HSM) was specified for a kernel process environment.

`OK` = The request has been received and completed; audit or audit cycle has been inhibited.

5. REFERENCES

Input Message(s):

`ALW:AUD`

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Other Manual(s):
235-600-400 *Audits*

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INH:AUD-SM

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Inhibits the automatic execution of an audit or the routine execution of the audit cycle in the switching module (SM) or range of SMs. The inhibit for the audit cycle is phase-protected. That is, once the audit cycle has been inhibited, it will remain inhibited even through system phases. An individual audit inhibit is not phase-protected and can only be set after the processor is up. A phase will have the effect of allowing a previously-inhibited audit to run.

2. FORMAT

```
INH:AUD[=a],SM=b[&&c][,RSM][,LSM][,HSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Audit(s) to be inhibited. The default is CYCLE. Valid value(s):

`Audit ID`

`CYCLE` = Inhibit the routine execution of the audit cycle.

`b` = SM number or lower limit of a range of SM numbers.

`c` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good.

- `AUDIT NOT AVAILABLE IN SM TYPE` = The request has been denied because the audit specified in the 'a' variable does not exist in the SM type specified, or does not exist in any SM type.
- `INVALID SM RANGE/TYPE COMBINATION` = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type (or any type) within the range.

`OK` = Good. The request has been received and completed. Audit or cycle has been inhibited.

`RL` = Retry later. May also include:

- `MESSAGE BROADCAST INTERNAL ERROR` = The message cannot be sent to the specified SM(s) at the present time due to problems in scheduling a job to broadcast the message.

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5. REFERENCES

Input Message(s):

```
ALW:AUD
```

Other Manual(s):
235-600-400 *Audits*

INH:AUD-SODD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the execution of either the full or incremental static office-dependent data (SODD) audit be inhibited. If the audit is currently running when this message is accepted, it is stopped. In addition, if the incremental audit is inhibited, all unaudited tuples are removed so that when the audit is eventually allowed, it does not produce invalid output caused by outdated tuples.

2. FORMAT

```
INH:AUD=SODD,{FULL|INCR};
```

3. EXPLANATION OF MESSAGE

`FULL` = The full SODD audit is to be inhibited.

`INCR` = The incremental SODD audit is to be inhibited.

4. SYSTEM RESPONSE

`OK` = The request has been received and completed; the SODD audit has been inhibited.

5. REFERENCES

Input Message(s):

```
ALW:AUD-SODD
OP:ST-AUD-SODD
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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INH:AUD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the routine execution of one or more audits that are controlled by the system integrity monitor (SIM) be inhibited. Entering the INH:AUD input message sets one or more audit inhibits to the manually inhibited state. This state can be removed only by entering an ALW:AUD input message. Every audit inhibit is removed by a phase 3 bootstrap.

Separate inhibit states are provided for:

- All audits. Entering the INH:AUD input message with the ALL option turns off routine audit scheduling completely, but has no effect on the inhibit states of individual audits.
- Each audit identified by audit name and member number. When an audit is inhibited it is not scheduled to run routinely. However, if it is permitted to run manually, it may be run by entering an AUD input message.
- One instance of an audit may be inhibited while other instances are allowed to run routinely.

Audit inhibit states may be displayed by entering the OP:AUD input message. The REPT:AUDSTAT output message periodically reports which audits are inhibited.

WARNING: Inhibiting audits may result in degradation of associated operating system resources.

2. FORMAT

```
INH:AUD,{ALL|a=[b]|a=c,INS=d};
```

3. EXPLANATION OF MESSAGE

`ALL` = Specifies all audits controlled by the SIM. Sets a master inhibit state which is independent of the inhibit states for individual audits.

`a` = Audit name. Central process or administrative module audit names can be found in the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

Note: If '`a`' is specified without '`b`', all members of the audit will be inhibited.

`b` = Member number. May be specified as a single number or a list of numbers. Member numbers can be found in the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

`c` = Single member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes

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section of the Input Messages manual.

`d` = Instance name.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:AUD
OP:AUD
```

Output Message(s):

```
OP:AUD
REPT:AUDSTAT
```

Input Appendix(es):

```
APP:AUD
APP:MEM-NUM-AUD
```

Other Manual(s):
235-190-115 *Local and Toll System Features*
235-600-400 *Audits*

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INH:AUTOBKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that all future automated system backup attempts be inhibited.

Format 1 is used to inhibit all future automated system backup attempts from executing until backups are once again allowed using the ALW:AUTOBKUP input message. If an automated system backup is currently in progress when INH:AUTOBKUP is executed, the backup will be allowed to continue, it will not be stopped. A message will be output indicating that an automated system backup is currently in progress. All future automated system backup attempts will be inhibited.

Format 2 is used to output a message indicating if automated system backups are currently inhibited or allowed. The inhibit status of automated system backups will not change. If automated system backups are allowed at the time INH:AUTOBKUP:STAT is executed, backups will remain allowed.

2. FORMAT

```
[1]    INH:AUTOBKUP;

[2]    INH:AUTOBKUP:STAT;
```

3. EXPLANATION OF MESSAGE

No Variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:AUTOBKUP output message.

5. REFERENCES

Input Message(s):

```
ALW:AUTOBKUP
CLR:BKUP
OP:BKUP
SCHED:BKUP
SET:BKUP
STP:AUTOBKUP
```

Output Message(s):

```
INH:AUTOBKUP
```

Other Manual(s):

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235-105-210 *Routine Operations and Maintenance Procedures*

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INH:AUTOCFG

Software Release: 5E15 and later
Command Group: AM
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic moving head disk (MHD) configuration feature be disabled for the entire office or for a specific MHD.

2. FORMAT

```
INH:AUTOCFG[:MHD=a];
```

3. EXPLANATION OF MESSAGE

`a` = Number of the MHD to be inhibited from auto MHD configuration. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If not specified, it defaults to the entire office.

4. SYSTEM RESPONSE

`OK` = Good. Requested inhibit has been set.

5. REFERENCES

Input Message(s):

```
ALW:AUTOCFG
OP:MHD-CFG
```

Output Message(s):

```
REPT:MHD-CONFIG
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-600-30x *ECD/SG Data Base*
235-105-210 *Routine Operations and Maintenance*

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INH:BICCCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Inhibits automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query. Inhibiting the automatic office-wide BICC CIC query does not affect manual BICC CIC query requests (EXC:BICCCQ input message). It also does not affect automatic or manual BICC CIC query requests already in progress.

2. FORMAT

```
INH:BICCCQ;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = The request has been accepted.

5. REFERENCES

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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INH:BREVC

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that automatic output message brevity control (BREVC) by output message class (MSGCLS) or processor be inhibited. The administrative module (AM), communication module processor (CMP) and all the switching modules (SMs) normally restrict the generation of output messages through automatic brevity controls. Under unusual circumstances, it may be desirable to allow certain output messages to route to the receive-only printer (ROP) or log file which otherwise would be suppressed. Brevity control restricts and prints application TTY output message by message class and priority to reduce the quantity of messages printed on the ROP. Inhibiting brevity control means that all messages generated by the switch will appear on the ROP.

The brevity status for each MSGCLS can be printed out using the OP:BREVC input message. The status for each system can be printed out using OP:SYSSTAT input message.

If a MSGCLS is selected, brevity control will be inhibited on all processors for that MSGCLS. If a processor is selected, brevity control will be inhibited on all output messages for that processor.

This inhibit is automatically cleared on high-level AM initializations. In addition, brevity control in the AM will be reallowed automatically if a shortage of message buffers is detected.

WARNING: Indiscriminate use of this inhibit may cause increased communication link traffic which can degrade call processing performance and capacity.

2. FORMAT

```
INH:BREVC,{MSGCLS=a|CMP=b|AM|SM=c[&&d]}[,LSM][,HSM][,RSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

`a` = Message class mnemonic. The message class for a particular message can be found on the corresponding output message manual page. A list of all valid MSGCLS codes are printed using the OP:LPS input message.

`b` = CMP number.

`c` = SM number or lower limit of a range of SM numbers to be inhibited.

`d` = Upper limit of a range of SM numbers to be inhibited.

4. SYSTEM RESPONSE

`NG` = No good. An illegal SM number or range was specified. An illegal CMP number was

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specified.

`OK` = Good. The request was accepted and executed.

5. REFERENCES

Input Message(s):

```
ALW:BREVC
OP:BREVC
OP:LPS
OP:SYSSTAT
```

Output Message(s):

```
OP:BREVC
OP:LPS
```

Other Manual(s):
235-105-250 *System Recovery*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

110 (SYSTEM INHIBITS)
1800 (SM INH & RCVRY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)

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INH:CALLMON

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the call monitor be inhibited from making test calls and performing call completion analysis. It also initializes the call monitor history data. The inhibit state can be cleared by the ALW:CALLMON input message.

2. FORMAT

```
INH:CALLMON;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

```
ALW:CALLMON
CLR:CALLMON
OP:CALLMON
RTR:CALLMON
SET:CALLMON
```

Output Message(s):

```
OP:CALLMON
REPT:CALLMON-CMR
REPT:CALLMON-VTC
```

Output Appendix(es):

```
APP:CALLMON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

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MCC Display Page(s):

116 (MISCELLANEOUS)

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INH:CAMAONI

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits centralized automatic message accounting (CAMA) operator number identification (ONI) processing. A minor alarm occurs.

WARNING: When this message is in effect, all calls that would normally be routed to a CAMA operator are routed without billing.

2. FORMAT

```
INH:CAMAONI;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows and a minor alarm occurs.

5. REFERENCES

Input Message(s):

```
ALW:CAMAONI
```

Output Message(s):

```
ALW:CAMAONI
INH:CAMAONI
```

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INH:CCS-PSLT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the inhibit for the periodic signaling link test (PSLT).

2. FORMAT

```
INH:CCS,PSLT,SM=a,[SET=b[MEMBER=c]];
```

3. EXPLANATION OF MESSAGE

`a` = CCS global switching module (GSM) number.

`b` = Link set number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Link set member. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:CCS,PSLT output message. Shall indicate success or failure of the inhibit request.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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INH:CCSCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Inhibits automatic periodic execution of the common channel signaling (CCS) office-wide circuit query. Inhibiting the automatic office-wide circuit query does not affect future manual circuit query requests (EXC:CCSCQ command). It also does not affect automatic or manual circuit query requests already in progress.

2. FORMAT

```
INH:CCSCQ;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Request accepted.

5. REFERENCES

Input Message(s):

```
ALW:CCSCQ
EXC:CCSCQ
OP:CCSCQ
OP:JOBSTATUS
STP:CCSCQ
```

Output Message(s):

```
EXC:CCSCQ
OP:CCSCQ
OP:JOBSTATUS
STP:CCSCQ
```

Other Manual(s):

235-190-120 *Common Channel Signaling Service Features*

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INH:CLNORM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that the communication link normalization (CLNORM) process be inhibited. When CLNORM is inhibited, automatic communication link, foundation peripheral controller (FPC), quad-link packet switch (QLPS), and communication module processor (CMP) reconfiguration actions is not performed by CLNORM.

If the 'FPC' option is specified, only automatic FPC reconfiguration actions is inhibited. If the 'CMP' option is specified, only automatic CMP reconfiguration actions is inhibited.

WARNING: Use of this message may degrade communication link reliability. It is recommended that this message be used for testing purposes only.

2. FORMAT

```
INH:CLNORM[,{FPC|CMP}];
```

3. EXPLANATION OF MESSAGE

CMP	= Communication module processor. Inhibit CMP normalization only. Communication link, QLPS, and FPC normalization is still performed.
FPC	= Foundation peripheral controller. Inhibit FPC normalization only. Communication link, QLPS, and CMP normalization is still performed.

4. SYSTEM RESPONSE

PF	= Printout follows. The request was accepted. Followed by the INH:CLNORM output message.

5. REFERENCES

Input Message(s):

```
ALW:CLNORM
SW:CMP
SW:FPC
SW:QLPS
```

Output Message(s):

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```
ALW:CLNORM
INH:CLNORM
```

Other Manual(s):
235-105-250 *System Recovery Procedures*

INH:CONFLOG

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Inhibits error logging on the CONFLOG error logfile for all specified central processor units. Error logging does not occur for any unit beneath the unit specified.

2. FORMAT

```
INH:CONFLOG:a=b;
```

3. EXPLANATION OF MESSAGE

`a` = Unit name, as specified in the unit control block (UCB). Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for administrative module (AM) unit names.

`b` = Unit number, as specified in the unit control block. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`OK` = Good. Request accepted.

`PF` = Printout follows. Followed by the INH:CONFLOG output message.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

`ALW:CONFLOG`

Output Message(s):

`INH:CONFLOG`

Input Appendix(es):

`APP:MEM-NUM-UNIT`

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INH:CORC

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all customer-originated recent changes (CORC) be inhibited. This message should be entered only immediately before evolving CORC logfiles during a retrofit.

WARNING: This message should be used only during retrofit.

2. FORMAT

```
INH:CORC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
ALW:CORC
INH:RC
```

Output Message(s):

```
INH:RC
```

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INH:CORCLOG-SM

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Inhibits the logging of customer-originated recent changes for one or more switching modules (SMs). This should be used only when the logging of customer-originated recent changes is causing a problem in the system.

2. FORMAT

```
INH:CORCLOG, SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number or range of numbers.

4. SYSTEM RESPONSE

`NG` = No good. The input message is not valid.

`OK` = The input message is accepted.

5. REFERENCES

Input Message(s):

`INH:RCLOG`

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INH:DEBUG

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that debugging messages be inhibited from being printed for a given feature. Inhibiting debugging messages on a switching module (SM) prohibits additional ASSERT, PTRACE, and REPT:METALLIC output messages from being printed during error handling.

Using METALLMSG will inhibit METRESBLK, METSWBLK, and METHWFAIL.

Format 1 is for ALE, CCS7MTCE, DIGITAL, METALLIC, METPTRACE, METALLMSG, METRESBLK, METSWBLK, METHWFAIL, METSUCCESS, and MLT SM only cases.

Format 2 is for CCS7MTCE and MLT AM only cases.

Format 3 is for MLT AM and SM cases.

2. FORMAT

```
[1]    INH:DEBUG,a,SM[=b[&&c]];

[2]    INH:DEBUG,a,AM;

[3]    INH:DEBUG,a;
```

3. EXPLANATION OF MESSAGE

`a` = Feature with additional debugging messages. Valid value(s):

`ALE`	= Automatic line evaluation.
`CCS7MTCE`	= Common channel signal maintenance activity.
`DIGITAL`	= Digital testing of lines (TST:DSL) and trunks (TST:TRK).
`METALLIC`	= Metallic path setup ASSERT and PTRACE messages with low-level unformatted information, not intended for general customer use.
`METPTRACE`	= Metallic related PTRACE messages.
`METALLMSG`	= Metallic path setup blockage and failure.
`METRESBLK`	= Metallic path setup resource blockage.
`METSWBLK`	= Metallic path setup software blockage.
`METHWFAIL`	= Metallic path setup hardware failure.
`METSUCCESS`	= Metallic path setup completed successfully.
`MLT`	= Mechanized loop test.
`TSTPATH`	= Test path application (TST:PATH).

`b` = SM number or the lower limit of a range of SM numbers (defaults to all equipped SMs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.

PF = Printout follows. Followed by INH:DEBUG output message.

5. REFERENCES

Input Message(s):

```
ALW:DEBUG
CHG:LPS-MSGCLS
OP:DEBUG
TST:DSL
TST:TRK
```

Output Message(s):

```
ALW:DEBUG
INH:DEBUG
OP:DEBUG
REPT:METALLIC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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INH:DLNHB

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the common network interface (CNI) automatic direct link node (DLN) heartbeat test be inhibited. The ALW:DLNHB and INH:DLNHB input messages form the basic on/off mechanism for DLN heartbeat. When the INH:DLNHB is issued, DLNHB will do nothing (except consume a certain amount of fixed overhead) until the ALW:DLNHB is issued.

2. FORMAT

```
INH:DLNHB;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `DLNs ARE NOT EQUIPPED` = DLN heartbeat is neither necessary nor enabled when the CNI ring is not equipped with DLNs.

`OK` = Good. Automatic testing allowed.

5. REFERENCES

Input Message(s):

```
ALW:DLNHB
```

Output Message(s):

```
REPT:DLNHB
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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INH:DMQ

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that the specified source of automatic maintenance requests be inhibited. Any process that sends a restore, remove, or diagnose request to the administrative module (AM) maintenance input request administrator can be prevented from doing so for the amount of time specified. A reminder that a specific inhibit is in effect is output at the specified intervals.

WARNING: Inhibiting automatic maintenance requests may result in hardware units remaining out-of-service (OOS) longer than necessary.

Note: The automatic maintenance requests will remain inhibited until the appropriate ALW:DMQ input message is issued.

2. FORMAT

```
INH:DMQ:SRC=a[,TINH=b][,AINH=c];
```

3. EXPLANATION OF MESSAGE

`a` = Three-character source name. Valid value(s):

- `ADP` = Automatic diagnostic process.
- `ALL` = Inhibits all automatic maintenance requests by changing the inhibited sources to ALL.
- `ARR` = Automatic ring recovery.
- `REX` = Routine exerciser.

Application processes may specify other sources of diagnostic requests.

`b` = The amount of time, in minutes, that the requests will be inhibited. The default is infinity. Specifying zero is the same as defaulting.

`c` = Alarm interval, in minutes. Each time this period elapses, a REPT:DMQ output message will be printed, indicating the inhibit that is in effect. The default is five minutes.

4. SYSTEM RESPONSE

`OK` = Good. Request accepted.

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PF = Printout follows. Followed by OP:DMQ or the REPT:DMQ output message.

5. REFERENCES

Input Message(s):

ALW:DMQ
OP:DMQ

Output Message(s):

INH:DMQ
OP:DMQ
REPT:DMQ

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INH:DOC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the dynamic overload control (DOC) treatment be inhibited upon the reception of DOC signals on a per trunk group basis.

2. FORMAT

```
INH:DOC,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the INH:DOC output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ALW:DOC
OP:DOC
```

Output Message(s):

```
INH:DOC
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-190-120 *CCS7 Signaling Service Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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INH:DRHR

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Inhibits the division of revenue hourly report (DRHR) from being output to the traffic channel.

2. FORMAT

```
INH:DRHR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The requested report has been inhibited.

5. REFERENCES

Input Message(s):

```
ALW:DRHR
OP:MEASTAT
```

Other Manual(s):
235-070-101 *Administrative Guidelines*

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INH:DSILC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be inhibited.

2. FORMAT

```
INH:DSILC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the INH:DSILC output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ALW:DSILC
OP:DOC
OP:SILC
```

Output Message(s):

```
INH:DSILC
```

Other Manual(s):
235-190-120 *CCS7 Signaling Service Features*

MCC Display Page(s):

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130 (NM EXCEPTION)

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INH:EAIINT

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Inhibits the logging and processing of emergency action interface (EAI) error interrupts from the 3B21D computer control unit (CU) specified in the identification field. If a CU is not specified with the input request, EAI error interrupts for both CUs are inhibited.

Note: The 3B20D computer CUs do not have EAI error interrupts.

CAUTION: Inhibiting EAI error interrupts can prevent the system from recovering automatically from hardware faults.

2. FORMAT

```
[1]    INH:EAIINT;

[2]    INH:EAIINT:CU a;
```

3. EXPLANATION OF MESSAGE

`a` = CU number 0 or 1.

4. SYSTEM RESPONSE

`PF` = Printout Follows. Followed by the INH:EAIINT output message.

`?I` = Invalid input. May also include:
- `INPUT ERROR` = Identification field error.

5. REFERENCES

Input Message(s):

```
ALW:ERRCHK
INH:EAIINT
INH:ERRCHK
```

Output Message(s):

```
ALW:EAIINT
INH:EAIINT
OP:ERRCHK
```

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INH:ECDAUD

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the execution of the on-switch ECD audit be inhibited. If the audit is currently running when this message is entered, the audit is allowed to continue to completion.

2. FORMAT

```
INH:ECDAUD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:ECDAUD output message.

5. REFERENCES

Input Message(s):

```
STOP:ECDAUD
EXC:ECDAUD
ALW:ECDAUD
SCHED:ECDAUD
OP:ECDAUD
```

Output Message(s):

```
INH:ECDAUD
```

Other Manual(s):
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance Manual*

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INH:EON5REPT

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

This input message is associated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of the Input Messages manual.

2. FORMAT

```
INH:EON5REPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NO` = Feature not available.

`RL` = Retry later.

`OK` = Good. Request was accepted.

5. REFERENCES

Input Message(s):

```
ALW:EON5REPT
```

Output Message(s):

```
REPT:EON5-DRA
REPT:EON5-TE
```

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INH:ERRCHK

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the logging and processing of all administrative module (AM) error sources. This message causes the inhibit administrator to set the inhibit status to inhibited for all *UNIX*® RTR inhibit sources. These include HDWCHK, SFTCHK, ERRINT, and the ERRSRC pseudo-nodes representing the control unit (CU) complexes.

WARNING: Inhibiting hardware checks, software checks, and error interrupts can prevent the system from recovering automatically from hardware or software faults.

2. FORMAT

```
INH:ERRCHK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:ERRCHK output message.

`?I` = Identification field error.

5. REFERENCES

Input Message(s):

```
ALW:ERRCHK
INH:ERRINT
INH:ERRSRC
INH:HDWCHK
INH:SFTCHK
OP:ERRCHK
```

Output Message(s):

```
ALW:ERRCHK
INH:ERRCHK
OP:ERRCHK
```

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INH:ERRINT

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that the logging and processing of error interrupts attached to the administrative module (AM) unit specified in the identification field be inhibited. If a unit name is not specified, then error interrupts for all AM units are inhibited.

WARNING: Inhibiting error interrupts can prevent the system from recovering automatically from hardware faults.

2. FORMAT

```
INH:ERRINT[:{a=b[,c=d]}];
```

3. EXPLANATION OF MESSAGE

`a` = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for AM unit names.

Note: Inhibiting a control unit (CU) in an active/standby duplex configuration inhibits both CUs since they must be kept in identical states.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Subunit name. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for AM CU subunit names.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Indicates that the unit name and number specified was found in the database but is unequipped.

`PF` = Printout follows. Followed by the INH:ERRINT output message.

5. REFERENCES

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Input Message(s):

```
ALW:ERRCHK
INH:ERRCHK
INH:ERRINT
```

Output Message(s):

```
ALW:ERRINT
INH:ERRINT
OP:ERRCHK
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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INH:ERRSRC

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Inhibits the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities. This message causes the inhibit administrator to set the inhibit status to inhibited for the CU pseudo-nodes.

2. FORMAT

```
INH:ERRSRC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:ERRSRC output message.

5. REFERENCES

Input Message(s):

```
ALW:ERRSRC
INH:ERRCHK
OP:ERRCHK
```

Output Message(s):

```
ALW:ERRSRC
INH:ERRSRC
OP:ERRCHK
```

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INH:ESP

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the essential service protection (ESP) be inhibited.

2. FORMAT

```
INH:ESP!
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:ESP output message. A response will also be reflected on page 109 of the Master Control Center (MCC).

5. REFERENCES

Input Message(s):

```
ALW:ESP
```

Output Message(s):

```
INH:ESP
```

Other Manual(s):
235-105-110 *Maintenance Requirements and Tools*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

109 (OVERLOAD)

RC/V View(s):

8.1 (Office Parameters)

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INH:ESQREPT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

This message is associated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

```
INH:ESQREPT
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NO` = Feature not available

`RL` = Retry later.

`OK` = Good. Request was accepted.

5. REFERENCES

Input Message(s):

```
ALW:ESQREPT
```

Output Message(s):

```
REPT:ESQ-DRA
REPT:ESQ-TE
```

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INH:EXTPM

Software Release: 5E17(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Deactivates all active external performance monitoring (PM) sessions and inhibits the initiation of future external PM sessions over one or more packet switch unit (PSU) asynchronous transfer mode (ATM) links (PSALNK).

A PSALNK provides the ability to interconnect the local PSU with multiple other PSUs in the ATM network, as designated by their community address and subnetwork identifiers. Each of these PSU-to-PSU connections can be monitored internally for performance-impacting metrics in accordance to the GR-1248 ATM standard and included in the relevant switch measurement reports for output. Similarly, the far endpoint of each PSU-to-PSU connection can request that the identical virtual circuit be monitored.

The purpose of this input message is to prevent these external requests for PM activity by far endpoints from being fulfilled by the host switch. It has the added effect of deactivating any currently active external PM sessions (except for shared flows as explained below). Each PM session (either internally or externally initiated) consumes a set amount of finite resources on each end of the target virtual circuit. Once these resources have been exhausted, additional PM requests will be denied. The corresponding ALW:EXTPM input message provides a means of enabling external PM activity.

Any single ATM virtual circuit may be tracked for performance activity by both the local host and the remote endpoint simultaneously. Such a PM session has both internal and external properties. When both endpoints have identical connection types [for example, both are virtual path connections (VPC) or both are virtual channel connections (VCC)], this PM session is referred to as a shared flow. One side of a shared flow (internal or external) cannot be disabled without affecting the entire session. For this reason, the INH:EXTPM input message deactivates all currently active external PM sessions except for those containing shared flows. To deactivate a shared flow, the internal PM session must be inhibited with the INH:PM input message. The INH:PM input message will also deactivate the external portion of a shared flow if external PM was previously inhibited.

If the PSALNK option is included, only the specified PSALNK will be affected by the input message. Otherwise, all PSALNKs in the office will be affected by the input message.

PM is only supported over a virtual circuit terminated locally by a PSALNK hosted on a protocol handler for ATM version 2 (PHA2).

2. FORMAT

```
INH:EXTPM[,PSALNK=a-b-c];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number of the target PSALNK.

`b` = PSU number of the target PSALNK.

`c` = Link number of the target PSALNK.

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4. SYSTEM RESPONSE

PF = Printout follows. Followed by one or more INH:EXTPM output messages.

NG = No good. May also include:
- NO PHA2 PSALNK EQUIPPED = The request has been denied. The message is valid but no PSALNKs within the scope of the input message were detected in the current equipage.
- PSALNK UNEQUIPPED = The request has been denied. The message is valid but the specified PSALNK was not detected in the current equipage.
- MUST BE A PHA2 PSALNK = The request has been denied. The message is valid but the specified PSALNK is not hosted by a PHA2.
- AM TIMER NOT STARTED = The request has been denied. The message is valid but a shortage of system resources has prevented any action from being taken.
- DATABASE ERROR = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- INTERNAL CORRUPTION = The request has been denied. The message is valid but an internal data corruption error has prevented any action from being taken.

RL = Retry later. May also include:
- PREVIOUS REQUEST IN PROGRESS The request has been denied. The message is valid but the previous request must complete before a new request can be made.

5. REFERENCES

Input Message(s):

```
ALW:EXTPM
ALW:PM
INH:PM
OP:LIST-FLOWACT
```

Output Message(s):

```
ALW:EXTPM
ALW:PM
INH:EXTPM
INH:PM
OP:LIST-FLOWACT
```

Input Appendix(es):

```
APP:RANGES
```

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INH:FAC-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number. This alert inhibit request overrides recent changeable allow states on RC/V Views 8.1, 20.23, 20.25, or 22.15. To determine a unit's alert control status, refer to the OP:FAC input message.

2. FORMAT

```
INH:FAC,a;
```

3. EXPLANATION OF MESSAGE

a = Valid value(s):

DFAC=n-b-c-d[,e]	IDCU=n-f[,e]
DFI=n-b-c[,e]	IFAC=n-f-g[,e]
DLTU=n-b[,e]	IDCURT=n-f-h[,e]
DNUS=n-i[,e]	SM=n
DNUSRT=n-i-h[,e]	EC1STE=n-i-j-k[,e]
DS1SFAC=n-i-j-k-l-m-o[,e]	VT1FAC=n-i-j-k-l-m-o[,e]

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Type of alerts to inhibit. Valid value(s):
- ALL = Both interval and daily alerts (default).
- DAY = Daily alerts.
- INT = 15-minute interval alerts.

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`i` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The input contained an illegal specification.

`PF` = Printout follows. Followed by the INH:FAC output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ALW:FAC
INIT:FAC
OP:FAC
OP:JOBSTATUS
```

Output Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-220 *Corrective Maintenance Procedures*

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
20.23 (IDCU FACILITY EQUIPMENT)
20.25 (DNU-S PERFORMANCE MONITORING THRESHOLD GROUP)
22.15 (PERFORMANCE MONITORING)

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INH:FAC-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number. This alert inhibit request overrides recent changeable allow states on RC/V Views 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)0, 20.23 [IDCU FACILITY EQUIPMENT (IFAC)], 20.25 [DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)], or 22.15 (PERFORMANCE MONITORING - THRESHOLD GROUP). To determine a unit's alert control status, refer to the OP:FAC input message.

2. FORMAT

```
INH:FAC,a;
```

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):

```
DFAC=n-b-c-d[,e]
DFI=n-b-c[,e]
DLTU=n-b[,e]
DNUS=n-i[,e]
DNUSRT=n-i-h[,e]
DS1=n-p-q-r-s-t-u[,e]
DS1SFAC=n-i-j-k-l-m-o[,e]
EC1STE=n-i-j-k[,e]
IDCU=n-f[,e]
IDCURT=n-f-h[,e]
IFAC=n-f-g[,e]
OC3=n-p-q-r[,e]
OIU=n-p[,e]
SM=n
STS1=n-p-q-r-s[,e]
VT15=n-p-q-r-s-t-u[,e]
VT1FAC=n-i-j-k-l-m-o[,e]
```

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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e = Type of alerts to inhibit. Valid value(s):
- ALL = Both interval and daily alerts (default).
- DAY = Daily alerts.
- INT = 15-minute interval alerts.

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = STS - level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Virtual tributary 1.5 group (VTGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Virtual tributary 1.5 member (VTMEM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. Followed by the INH:FAC output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ALW:FAC
INIT:FAC
OP:FAC
OP:JOBSTATUS
```

Output Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
20.23	IDCU FACILITY EQUIPMENT (IFAC)
20.25	DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)
22.15	PERFORMANCE MONITORING - THRESHOLD GROUP

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INH:FAC-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), digital networking unit - synchronous optical network (SONET) (DNU-S) number or a session initiation protocol (SIP) protocol handler (PH) on a packet switch unit (PSU). This alert inhibit request overrides recent changeable allow states on RC/V Views 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)], 20.23 [IDCU FACILITY EQUIPMENT (IFAC)], 20.25 [DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)], 20.32 (PERFORMANCE MONITORING THRESHOLD GROUP), or 22.15 (PERFORMANCE MONITORING - THRESHOLD GROUP). To determine a unit's alert control status, refer to the OP:FAC input message.

2. FORMAT

```
INH:FAC,a;
```

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):

```
DFAC=n-b-c-d[,e]
DFI=n-b-c[,e]
DLTU=n-b[,e]
DNUS=n-i[,e]
DNUSRT=n-i-h[,e]
DS1=n-p-q-r-s-t-u[,e]
DS1SFAC=n-i-j-k-l-m-o[,e]
EC1STE=n-i-j-k[,e]
IDCU=n-f[,e]
IDCURT=n-f-h[,e]
IFAC=n-f-g[,e]
OIU=n-p[,e]
OC3=n-p-q-r[,e]
OC3C=n-p-q-v[,e]
PPPLK=n-p-q-v-w[,e]
PSU=n-x[,e]
PSUPH=n-x-y-z[,e]
SM=n
STS1=n-p-q-r-s[,e]
STS3C=n-p-q-v-w[,e]
VT15=n-p-q-r-s-t-u[,e]
VT1FAC=n-i-j-k-l-m-o[,e]
```

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Type of alerts to inhibit. Valid value(s):

`ALL`	= Both interval and daily alerts (default).
`DAY`	= Daily alerts.
`INT`	= 15-minute interval alerts.

`f` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = STS - level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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t = Virtual tributary 1.5 group (VTGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Virtual tributary 1.5 member (VTMEM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = PSU shelf (PSUSHLF) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = PSU relative protocol handler (PSURELPH). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. Followed by the INH:FAC output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ALW:FAC
INIT:FAC
OP:FAC
OP:JOBSTATUS
```

Output Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
20.12	STS-1 FACILITY PROVISIONING (DNU-S)
20.23	IDCU FACILITY EQUIPMENT (IFAC)
20.24	VT1.5 FACILITY PROVISIONING (DNU-S)
20.25	DNU-S PERFORMANCE MONITORING THRESHOLD GROUP (SM2000)
20.29	OIU SONET TERMINATION EQUIPMENT (SM2000)
20.30	HIGH-LEVEL VIRTUAL CONTAINER (OIU)
20.31	LOW-LEVEL VIRTUAL CONTAINER (OIU)
20.32	PERFORMANCE MONITORING THRESHOLD GROUP (OIU, SIP PSUPH)
22.15	PERFORMANCE MONITORING (DLTU)
33.16	SIP-T PROCESSOR GROUP

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INH:FSYS-UMOUNT

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the use of a previously mounted file system. It informs the system that the removable file system previously mounted is to be removed.

WARNING: Incorrect use of this input message can prevent the system from accessing needed files.

2. FORMAT

```
INH:FILESYS,UMOUNT,FN="a";
```

3. EXPLANATION OF MESSAGE

`a` = Special device name of the file system to be unmounted. Refer to the ECD/SG manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:FSYS-UMOUNT output message.

5. REFERENCES

Input Message(s):

```
ALW:FSYS-MOUNT
OP:ST-FILESYS
```

Output Message(s):

```
INH:FSYS-UMOUNT
OP:ST-FILESYS
```

Other Manual(s):

Where 'x' is the release-specific version of the specified document.

235-600-30x *ECD/SG*
235-105-210 *Routine Operations and Maintenance*

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MCC Display Page(s):

(CRAFT FM 01)

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INH:GKCCR

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests the inhibition of automatic executions of the generated key collection and compression routine (GKCCR) in specified processors. Either specific processors can be specified or no processors can be specified. If no processors are specified, then the GKCCR will be inhibited on every processor.

2. FORMAT

```
INH:GKCCR[,SM=a[&&b]][,CMP=c][,AM];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

`c` = Communications module processor (CMP) number.

4. SYSTEM RESPONSE

`NG` = No good. The input request is invalid. May also include:
- `NO VALID PROCESSOR SPECIFIED` = Specific processor(s) were specified in the input request line, but no requested processor was operational. If specific processors are to be requested, at least one requested processor must be operational.

`OK` = Good. Request was accepted.

5. REFERENCES

Input Message(s):

```
EXC:GKCCR
INH:GKCCR
ALW:GKCCR
```

Output Message(s):

```
EXC:GKCCR
REPT:GKCCR
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-210 *Routine Operations and Maintenance*

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INH:HBPRT

Software Release: 5E20(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the executive cellular processor (ECP) heartbeat printing functionality be inhibited.

Once printing is inhibited, it will remain inhibited until it is either manually allowed using the ALW:HBPRT input message or automatically allowed due to a transition from a state of receiving ECP heartbeat requests to a state of ECP heartbeat lost.

2. FORMAT

```
INH:HBPRT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Command was accepted.

5. REFERENCES

Input Message(s):

```
ALW:HBPRT
OP:HBPRT
```

Output Message(s):

```
REPT:HBPRT
OP:HBPRT
```

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INH:HDW-AIU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on an access interface unit (AIU).

2. FORMAT

```
INH:HDWCHK,AIU=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the INH:HDW-AIU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:HDW-AIU`

Output Message(s):

`INH:HDW-AIU`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1320,y,x (AIU SUMMARY)

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INH:HDW-CDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits maintenance interrupts on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit. Interrupts may be re-enabled with the ALW:HDWCHK-CDFI input message.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,CDFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the INH:HDWCHK-CDFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ALW:HDW-CDFI
```

Output Message(s):

```
INH:HDW-CDFI
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-CDI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified control data interface (CDI).

2. FORMAT

```
INH:HDWCHK,CDI=a-b-c;
```

3. EXPLANATION OF MESSAGE

a	= Switching module number.
b	= Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the INH:HDW-CDI output message.

5. REFERENCES

Output Message(s):

```
INH:HDW-CDI
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-CLNK

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits level 2 and level 3 hardware checks (errors) on one or all of the specified communication links (CLNKs). Refer to the Corrective Maintenance manual for an explanation of level 2 and level 3 errors.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,CLNK{=a-b-c-d|,ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Inhibit errors on all communication links (CLNKs).

`a` = Switching module (SM) number.

`b` = Office network and timing complex (ONTC) side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Module message processor (MMP) type. Valid value(s):
`0` = Alpha.
`1` = Beta.

`d` = Message switch (MSGS) side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ALL NOT VALID WITH A SINGLE UNIT` = A single CLNK and ALL may not be specified together.
- `UNIT UNEQUIPPED` = The specified single CLNK is unequipped.

`PF` = Printout follows. A printout will follow when the requested action is completed.

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5. REFERENCES

Input Message(s):

```
ALW:HDW-CLNK
OP:HDWCHK
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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INH:HDW-CM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits all hardware error checks on all communication module (CM) units. This includes the message switch control unit (MSCU) (for communication module model 2; hardware only), foundation peripheral controller (FPC), pump peripheral controller (PPC), module message processor (MMP), office network and timing complex (ONTC), and communication links (CLNKs).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in these units.

2. FORMAT

```
INH:HDWCHK,CM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress. The phrase '`PENDING EXIT FROM MANUAL CM ISOLATION`' indicates that the request cannot be executed now because the communication module (CM) is isolated from the administrative module (AM) using a manual request. The request will be acted upon once AM communication with the CM is re-established.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. The request has been accepted and an INH:HDW-CM output message will follow.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full; try again later.

5. REFERENCES

Input Message(s):

```
ALW:HDW-CM
CLR:ISOL-CM
```

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Output Message(s):

```
INH:HDW-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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INH:HDW-CMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the hardware checks on the specified communication module processor (CMP) be inhibited.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,{CMP=a-b|CMP=b,{PRIM|MATE}};
```

3. EXPLANATION OF MESSAGE

`MATE` = Mate, or non-active, CMP member.

`PRIM` = Primary, or active, CMP member.

`a` = Message switch side number.

`b` = CMP number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the INH:HDW-CMP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-CMP
OP:HDWCHK
```

Output Message(s):

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```
ALW:HDW-CMP
INH:HDW-CMP
OP:HDWCHK
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241/51 (MSGS COMMUNITIES 0-1, 8-9)

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INH:HDW-DCLU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified *SLC*®96 digital carrier line unit (DCLU).

2. FORMAT

```
INH:HDWCHK,DCLU=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the INH:HDW-DCLU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`INH:HDW-DCLU`

Input Appendix(es):

`APP:RANGES`

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INH:HDW-DCTUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified directly connected test unit common board (DCTUCOM).

2. FORMAT

```
INH:HDWCHK,DCTUCOM=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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INH:HDW-DFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified digital facility interface (DFI).

2. FORMAT

```
INH:HDWCHK,DFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

a	= Switching module number.
b	= Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:SYS-RESPONSE in the Appendixes section of the Input Messages manual.

5. REFERENCES

Output Message(s):

```
INH:HDW-DFI
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-DFIH

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks in a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH). The system inhibits the hardware checks if internal status allows the transition. The system requires an ALW:HDW-DFIH input message to enable the hardware checks.

2. FORMAT

```
INH:HDWCHK,DFIH=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `NG-CONFLICT WITH UNIT STATE`
- `NG-SM DOES NOT EXIST`
- `NG-SM UNEQUIPPED`
- `NG-UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the INH:HDW-DFIH output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-DFIH
```

Output Message(s):

```
INH:HDW-DFIH
```

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Input Appendix(es):

```
APP:RANGES
```

Copyright ©2007 Lucent Technologies

INH:HDW-DFTAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified distributing frame test access circuit (DFTAC).

2. FORMAT

```
INH:HDWCHK,DFTAC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Invalid IM number, MSU number, or service group number.

`PF` = Printout follows. Output message will follow with completion status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources (such as, IM is not linked).

5. REFERENCES

Output Message(s):

```
INH:HDW-DFTAC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-DNUSCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

2. FORMAT

```
INH:HDWCHK,DNUSCC=a-b-c;
```

3. EXPLANATION OF MESSAGE

a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with the current status.
PF	= Printout follows. Followed by the INH:HDW-DNUSCC output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-DNUSCC
```

Output Message(s):

```
INH:HDW-DNUSCC
```

Input Appendix(es):

```
APP:RANGES
```

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MCC Display Page(s):

1510 (DNUS STATUS)

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INH:HDW-DNUSCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

2. FORMAT

```
INH:HDWCHK,DNUSCD=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the INH:HDW-DNUSCD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-DNUSCD
```

Output Message(s):

```
INH:HDW-DNUSCD
```

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

Copyright ©2007 Lucent Technologies

INH:HDW-FPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the hardware error checks on the specified foundation peripheral controller (FPC).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,FPC=a;
```

3. EXPLANATION OF MESSAGE

`a` = FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
ALW:HDWCHK
OP:CFGSTAT
```

Output Message(s):

```
ALW:HDWCHK
INH:HDWCHK
OP:CFGSTAT
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-GDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Checks hardware in a global digital services function (GDSF) circuit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,GDSF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Message syntax is valid, but the request conflicts with current equipment status.

`PF` = Printout follows. The request has been accepted. Output message INH:HDW-GDSF will follow.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
ALW:HDW-GDSF
```

Output Message(s):

```
ALW:HDW-GDSF
INH:HDW-GDSF
```

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Input Appendix(es):

```
APP:RANGES
```

Copyright ©2007 Lucent Technologies

INH:HDW-GDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified global digital service unit common (GDSUCOM) board.

2. FORMAT

```
INH:HDWCHK,GDSUCOM=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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INH:HDW-GDXACC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified gated diode crosspoint access (GDXACC) circuit.

2. FORMAT

```
INH:HDWCHK,GDXACC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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INH:HDW-GDXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified gated diode crosspoint compensator (GDXC) circuit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

2. FORMAT

```
INH:HDWCHK,GDXC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = MSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-GDXCON

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified gated diode crosspoint control (GDXCON) circuit.

2. FORMAT

```
INH:HDWCHK,GDXCON=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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INH:HDW-GRID

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified gated diode crosspoint grid (GRID).

2. FORMAT

```
INH:HDWCHK,GRID=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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INH:HDW-GRIDBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified line unit model 2; (LU2) or line unit model 3; (LU3) grid board.

2. FORMAT

```
INH:HDWCHK,GRIDBD=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

`c` = Grid number. Valid value(s):
`(0-7)` = LU2
`(0-9)` = LU3

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-GRIDBD output message, including completion status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-GRIDBD
```

Output Message(s):

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```
ALW:HDW-GRIDBD
INH:HDW-GRIDBD
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-HDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.

2. FORMAT

```
INH:HDWCHK,HDFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

`c` = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

`ALW:HDW-HDFI`

Input Appendix(es):

`APP:RANGES`

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INH:HDW-IDCU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that interrupts in an integrated digital carrier unit (IDCU) service group circuit be inhibited. The module software will inhibit all error sources from the service group. The system requires an ALW:HDW-IDCU input message to allow the error sources.

2. FORMAT

```
INH:HDWCHK,IDCU=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

`c` = IDCU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-IDCU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:HDW-IDCU`

Output Message(s):

`INH:HDW-IDCU`

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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INH:HDW-IDCUELI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that interrupts in an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be inhibited. The module software will inhibit all error sources from the circuit. The system requires an ALW:HDW-IDCUELI input message to allow the error sources.

2. FORMAT

```
INH:HDWCHK,IDCUELI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-IDCUELI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-IDCUELI
```

Output Message(s):

```
INH:HDW-IDCUELI
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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INH:HDW-IFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that interrupts in an integrated digital carrier unit (IDCU) facility (IFAC) circuit be inhibited. The module software will inhibit all error sources from the facility. The system requires an ALW:HDW-IFAC input message to allow the error sources. This input message will only work on IFACs associated with the A and P facilities for the TR008 remote terminal (RT) and on the protection line for the TR303 RT.

2. FORMAT

```
INH:HDWCHK,IFAC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-IFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-IFAC
```

Output Message(s):

```
INH:HDW-IFAC
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

187x (IFAC CIRCUIT)
188xyy (IDCU REMOTE TERMINAL)

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INH:HDW-ISLUCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on an integrated services line unit common controller (ISLUCC).

2. FORMAT

```
INH:HDWCHK,ISLUCC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the INH:HDW-ISLUCC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:HDW-ISLUCC`

Output Message(s):

`INH:HDW-ISLUCC`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

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170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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INH:HDW-ISLUCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on an integrated services line unit common data (ISLUCD).

2. FORMAT

```
INH:HDWCHK,ISLUCD=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the INH:HDW-ISLUCD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`INH:HDW-ISLUCD`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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INH:HDW-ISLUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).

2. FORMAT

```
INH:HDWCHK,ISLUHLSC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = HLSC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-ISLUHLSC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-ISLUHLSC
```

Output Message(s):

```
INH:HDW-ISLUHLSC
```

Input Appendix(es):

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APP:RANGES

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INH:HDW-ISLUMAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits interrupts in an integrated services line unit (ISLU) metallic access network (MAN).

2. FORMAT

```
INH:HDWCHK,ISLUMAN=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = MAN number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-ISLUMAN output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-ISLUMAN
```

Output Message(s):

```
INH:HDW-ISLUMAN
```

Input Appendix(es):

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APP:RANGES

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INH:HDW-ISLURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits error sources in an integrated services line unit (ISLU) ringing generator (RG).

2. FORMAT

```
INH:HDWCHK,ISLURG=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-ISLURG output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:HDW-ISLURG`

Output Message(s):

`INH:HDW-ISLURG`

Input Appendix(es):

`APP:RANGES`

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INH:HDW-ISTF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks in an integrated services test function (ISTF) unit. The module software inhibits the indicated error source. The system first requires an ALW message to allow the error source before inhibiting.

2. FORMAT

```
INH:HDWCHK,ISTF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the INH:HDW-ISTF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

```
ALW:HDW-ISTF
```

Output Message(s):

```
ALW:HDW-ISTF
INH:HDW-ISTF
```

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Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on an Inter-Working Gateway Link Interface Unit (IWGLI)

2. FORMAT

```
INH:HDWCHK,IWGLI=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-Working Gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data Group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Inter-Working Gateway Link Interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the INH:HDW-IWGLI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`DGN:IWGLI`

Output Message(s):

`INH:HDW-IWGLI`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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INH:HDW-LDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Checks hardware in a local digital service function (LDSF) circuit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,LDSF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Message syntax is valid, but the request conflicts with current equipment status.

`PF` = Printout follows. The request has been accepted. Followed by the INH:HDW-LDSF output message.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
ALW:HDW-LDSF
```

Output Message(s):

```
ALW:HDW-LDSF
INH:HDW-LDSF
```

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Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-LDSU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Checks hardware in a local digital service unit - model 2 (LDSU2) board. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,LDSU=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Message syntax is valid, but the request conflicts with current equipment status.

`PF` = Printout follows. The request has been accepted. Followed by the INH:HDW-LDSU output message.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
ALW:HDW-LDSU
```

Output Message(s):

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```
ALW:HDW-LDSU
INH:HDW-LDSU
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-LDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified local digital service unit common (LDSUCOM) board.

2. FORMAT

```
INH:HDWCHK,LDSUCOM=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Local digital service unit number.

`c` = Service group number.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:HDW-LDSUCOM
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-LUCHAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified line unit channel (LUCHAN).

2. FORMAT

```
INH:HDWCHK,LUCHAN=a-b-c-d-e;
```

3. EXPLANATION OF MESSAGE

a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e	= Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:HDW-LUCHAN
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-LUCOMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified line unit common control (LUCOMC).

2. FORMAT

```
INH:HDWCHK,LUCOMC=a-b-c;
```

3. EXPLANATION OF MESSAGE

a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:HDW-LUCOMC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-LUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified line unit high service circuit (LUHLSC).

2. FORMAT

```
INH:HDWCHK,LUHLSC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:HDW-LUHLSC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-MCTSI-A

Software Release: 5E15 - 5E16(1)
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a hardware check (HDWCHK) be inhibited in a module controller/time-slot interchange unit (MCTSI). The system requires an ALW:HDW-MCTSI input message to allow the HDWCHK.

WARNING: Inhibiting ALL disables all hardware error detection circuitry, puts the processor into a slow state, and disables the cache memory. This will result in degraded switching module (SM) performance. Inhibiting ALL has no performance impact on SMs with the MCTU3 (module controller/time slot interchange unit 3) or SM-2000s.

2. FORMAT

```
INH:HDWCHK,MCTSI=a-b,c;
```

3. EXPLANATION OF MESSAGE

`a` = SM/SM-2000 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Keyword that specifies inhibit bit names. Valid value(s):

Note: If the keyword is invalid for the specified SM/SM-2000, the request will be denied with the message `STOPPED REQUEST NOT ALLOWED.`

`ALL` = All module controller maintenance errors. Refer to the service degradation warning.

`AFFCI` = Active flip-flop cleared interrupt. Valid for SMs with the MCTU3 and in SM-2000s.

`ARPV` = Arbitration protocol violation error. Valid for SM-2000 only.

`ASDPE` = Synchronous data link controller (SDLC) A reset. Not valid for SM-2000.

`BSDPE` = SDLC B reset. Not valid for SM-2000.

`CACHE` = Cache errors. Inhibiting CACHE on SM-2000s with cache inhibits the interrupts source while on non-SM-2000s with caches it disables the cache area as well, which slows down the operation of the processor. This option is only valid for SMs with the module controller/time slot interchange unit 2 (MCTU2), the extended memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 processor pack.

`CADPR` = Memory address mismatch error. Valid for SM-2000 only.

`CBERR` = Correctable bit error. Inhibiting this error will degrade processor performance. Inhibiting this error has no performance impact on SM-2000 or MCTU3.

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CI0IN and CI00IN = Control interface (CI) 0 interrupt.
CI1IN and CI01IN = CI 1 interrupt.
CI2IN and CI02IN = CI 2 interrupt. Valid for SM-2000 only.
CI3IN and CI03IN = CI 3 interrupt. Valid for SM-2000 only.
CIxyN = CI interrupt in an electrical extended control and data unit (XCDU) or optical extended control and data unit (OXU) shelf where "x" is the XCDU/OXU number and "y" is the CI number. x is 0 for local CIs and 1 - 8 for XCDU/OXU, y is the CI number which is 0 - 3 for local and 0 - 2 for XCDU/OXU Valid for SM-2000 only.
CPINT = Enhanced central processor intervention interrupt.
DCODE = Decode error. Valid for SM-2000 only.
DL0PE = Dual link interface (DLI) 0 parity error. Not valid for SM-2000.
DL1PE = DLI 1 parity error. Not valid for SM-2000.
DLI0I = Data link 0 interrupt. Not valid for SM-2000.
DLI1I = Data link 1 interrupt. Not valid for SM-2000.
DLISW = DLI switch error. Not valid for SM-2000.
IAC0 = DLI0 illegal access error. Not valid for SM-2000.
IAC1 = DLI 1 illegal access error. Not valid for SM-2000.
LPVER = Bus lock violation. Valid for SM-2000 only.
MADPE = Address parity error.
MAPCMSC = Application controller miscellaneous errors (loss of clock, receive cyclic-redundancy-check error, loss of synchronization, and subunit mismatch error). Valid for SM-2000 only.
MCINT = Resets in the mate controller.
MDLIE = DLI interface error. Not valid for SM-2000.
MH0IN = Message handler 0 interrupt. Valid for SM-2000 only.
MH1IN = Message handler 1 interrupt. Valid for SM-2000 only.
MH2IN = Message handler 2 interrupt. Valid for SM-2000 only.
MIOIO = I/O invalid operation error.
MIOLE = I/O timer lock error.
MIOPE = I/O bus parity error. Not valid for SM-2000.
MIOTO = I/O timer time out error.
MIOUE = I/O unlock error.
MMEME = Memory system error. Not valid for SM-2000.
MPRIN = Maintenance interrupts in the mate MCTSI.
MRDYT = Ready time out.
MRSPERR = Multiple response error. Valid for MCTU2 and SM-2000 only.
MRWPE = Read or write parity error.
MSUSM = Subunit select mismatch. Not valid for SM-2000.
MWPER = Write protect error. For SM-2000, inhibiting this error will not inhibit all write protect errors because they are not all inhibitable.
NCBERR = Non-correctable bit error. Valid for SM-2000 only.
OXUxIN = OXU interrupts where "x" is the OXU number (1 - 8). Valid for SM-2000 only.
PIINT = Packet interface (PI) interrupt.
PUMPHW = Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.
REFE = Dynamic RAM refresh fail error. Valid for SM-2000 only.
SPINT = Signal processor interrupt. Not valid for SM-2000.
SSYNC = Scanned I/O sync error. Valid for SM-2000 only.
STKE = Stack protect error. Not valid for SM-2000.

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TSIIN	= Time-slot interchange (TSI) interrupt. For SM-2000, this will also inhibit interrupts from network link interfaces (NLIs).
TSI4IN	= TSI model four interrupt. Inhibiting this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.
XCDUxIN	= XCDU interrupt where x is the XCDU number. Inhibiting this interrupt will result in inhibiting all interrupts for the requested XCDU including the interrupts from the CIs in that XCDU. Valid for SM-2000 only.
XLCKM	= XCDCLs (electrical control and data control link) or OCDCLs (optical control and data control link) loss of clock interrupt.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the INH:HDW-MCTSI output message.
RL	= Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.

5. REFERENCES

Input Message(s):

```
ALW:HDW-MCTSI
OP:OFFNORM-SM
```

Output Message(s):

```
INH:HDW-MCTSI
OP:OFFNORM-SM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-250 *System Recovery Procedures*

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INH:HDW-MCTSI-B

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a hardware check be inhibited in a module controller/time-slot interchange unit (MCTSI).

WARNING: Inhibiting ALL disables all hardware error detection circuitry, puts the processor into a slow state, and disables the cache memory. This will result in degraded switching module (SM) performance. Inhibiting ALL has no performance impact on SMs with the module controller/time slot interchange unit 3 (MCTU3) or SM-2000s.

2. FORMAT

```
INH:HDWCHK,MCTSI=a-b,c;
```

3. EXPLANATION OF MESSAGE

`a` = SM/SM-2000 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Keyword that specifies inhibit bit names.

If the keyword is invalid for the specified SM/SM-2000, the request will be denied with the message `STOPPED REQUEST NOT ALLOWED`.

Valid value(s):

`ALL`	= All module controller maintenance errors. Refer to the service degradation warning.
`AFFCI`	= Active flip-flop cleared interrupt. Valid for SMs with the MCTU3 and in SM-2000s.
`ARPV`	= Arbitration protocol violation error. Valid for SM-2000 only.
`ASDPE`	= Synchronous data link controller (SDLC) A reset. Not valid for SM-2000.
`BSDPE`	= SDLC B reset. Not valid for SM-2000.
`CACHE`	= Cache errors. Inhibiting CACHE on SM-2000s with cache inhibits the interrupts source while on non-SM-2000s with caches it disables the cache area as well, which slows down the operation of the processor. This option is only valid for SMs with the module controller/time slot interchange unit 2 (MCTU2), the extended memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 or CORE700 processor pack.
`CADPR`	= Memory address mismatch error. Valid for SM-2000 only.
`CBERR`	= Correctable bit error. Inhibiting this error will degrade processor

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performance. Inhibiting this error has no performance impact on SM-2000 or MCTU3.

CI0IN and CI00IN = Control interface (CI) 0 interrupt.

CI1IN and CI01IN = CI 1 interrupt.

CI2IN and CI02IN = CI 2 interrupt. Valid for SM-2000 only.

CI3IN and CI03IN = CI 3 interrupt. Valid for SM-2000 only.

CIxyN = CI interrupt in an electrical extended control and data unit (XCDU) or optical extended control and data unit (OXU) shelf where "x" is the XCDU/OXU number and "y" is the CI number. x is 0 for local CIs and 1 - 8 for XCDU/OXU, y is the CI number which is 0 - 3 for local and 0 - 2 for XCDU/OXU Valid for SM-2000 only.

CPINT = Enhanced central processor intervention interrupt.

DCODE = Decode error. Valid for SM-2000 with CORE60 only.

DL0PE = Dual link interface (DLI) 0 parity error. Not valid for SM-2000.

DL1PE = DLI 1 parity error. Not valid for SM-2000.

DLI0I = Data link 0 interrupt. Not valid for SM-2000.

DLI1I = Data link 1 interrupt. Not valid for SM-2000.

DLISW = DLI switch error. Not valid for SM-2000.

IAC0 = DLI0 illegal access error. Not valid for SM-2000.

IAC1 = DLI 1 illegal access error.

LOSUI = Update interface loss of synchronization. Valid for SM-2000 with CORE700 only.

LPVER = Bus lock violation. Valid for SM-2000 with CORE60 only.

MADPE = Address parity error.

MAPCMSC = Application controller miscellaneous errors (loss of clock, receive cyclic-redundancy-check error, loss of synchronization, and subunit mismatch error). Valid for SM-2000 only.

MCINT = Resets in the mate controller.

MDLIE = DLI interface error. Not valid for SM-2000.

MH0IN = Message handler 0 interrupt. Valid for SM-2000 only.

MH1IN = Message handler 1 interrupt. Valid for SM-2000 only.

MH2IN = Message handler 2 interrupt. Valid for SM-2000 only.

MIOIO = I/O invalid operation error.

MIOLE = I/O timer lock error.

MIOPE = I/O bus parity error. Not valid for SM-2000.

MIOTO = I/O timer time out error.

MIOUE = I/O unlock error.

MMEME = Memory system error. Not valid for SM-2000.

MPRIN = Maintenance interrupts in the mate MCTSI.

MRDYT = Ready time out.

MRSPERR = Multiple response error. Valid for MCTU2 and SM-2000 only.

MRWPE = Read or write parity error.

MSUSM = Subunit select mismatch. Not valid for SM-2000.

MWPER = Write protect error. For SM-2000, inhibiting this error will not inhibit all write protect errors because they are not all inhibitable.

NCBERR = Non-correctable bit error. Valid for SM-2000 only.

OXUxIN = OXU interrupts where "x" is the OXU number (1 - 8). Valid for SM-2000 only.

PIINT = Packet interface (PI) interrupt.

PUMPHW = Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.

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REFE	= Dynamic RAM refresh fail error. Valid for SM-2000 only.
SPINT	= Signal processor interrupt. Not valid for SM-2000.
SSYNC	= Scanned I/O sync error. Valid for SM-2000 with CORE60 only.
STKE	= Stack protect error. Not valid for SM-2000.
TSIIN	= Time-slot interchange (TSI) interrupt. For SM-2000, this will also inhibit interrupts from network link interfaces (NLIs).
TSI4IN	= TSI model four interrupt. Inhibiting this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.
XCDUxIN	= XCDU interrupt where x is the XCDU number. Inhibiting this interrupt will result in inhibiting all interrupts for the requested XCDU including the interrupts from the CIs and DIs in that XCDU. Valid for SM-2000 only.
XLCKM	= Electrical control and data control links (XCDCL) or optical control and data control links (OCDCL) loss of clock interrupt.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the INH:HDW-MCTSI output message.
RL	= Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.

5. REFERENCES

Input Message(s):

```
ALW:HDW-MCTSI
OP:OFFNORM-SM
```

Output Message(s):

```
INH:HDW-MCTSI
OP:OFFNORM-SM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-250 *System Recovery Procedures*

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INH:HDW-MMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that hardware error checks on the specified module message processor (MMP) be inhibited.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,MMP=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MMP logical identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows. Followed by the INH:HDWCHK output message.

5. REFERENCES

Input Message(s):

```
ALW:HDWCHK
OP:CFGSTAT
```

Output Message(s):

```
ALW:HDWCHK
INH:HDWCHK
OP:CFGSTAT
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-250 *System Recovery Procedures*

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INH:HDW-MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware checks (errors) on a message switch control unit (MSCU).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,MSCU=a;
```

3. EXPLANATION OF MESSAGE

`a` = MSCU side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO INHIBITS FOR CM1 MSCU` = This office has communications module model 1 (CM1) hardware. The CM1 MSCU does not have hardware inhibits.
- `UNIT UNEQUIPPED` = The specified unit is not equipped.

`PF` = Printout follows. A printout will follow when the requested action is completed.

5. REFERENCES

Input Message(s):

```
ALW:HDW-MSCU
OP:HDWCHK
```

Output Message(s):

```
OP:HDWCHK
```

Input Appendix(es):

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```
APP:RANGES
```

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INH:HDW-MSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified metallic service unit common (MSUCOM) board.

2. FORMAT

```
INH:HDWCHK,MSUCOM=a-b-c;
```

3. EXPLANATION OF MESSAGE

a	= Switching module number.
b	= Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:HDW-MSUCOM
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-NCREF

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that hardware error checks be inhibited on the specified network clock reference (NCREF).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,NCREF,a=b;
```

3. EXPLANATION OF MESSAGE

a = Network clock reference (NCREF).

Network clock type:	'a' =
NC1	PRIM = Primary reference. SEC = Secondary reference. XC = Cross-couple reference.
NC2	XC = Cross-couple reference.

b = Network clock side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. Following by the INH:HDW-NCREF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-NCREF
OP:CFGSTAT
```

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Output Message(s):

```
ALW:HDW-NCREF
INH:HDW-NCREF
OP:CFGSTAT
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)

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INH:HDW-OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on an optical facility interface (OFI).

2. FORMAT

```
INH:HDWCHK,OFI=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.
`PF` = Printout follows. Followed by the INH:HDW-OFI output message.
`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:HDW-OFI`

Output Message(s):

`INH:HDW-OFI`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

Copyright ©2007 Lucent Technologies

1490 OIU STATUS

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INH:HDW-ONTC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the hardware error checks from being performed on the specified office network and timing complex (ONTC).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,ONTC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Side of ONTC. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
ALW:HDW-ONTC
OP:CFGSTAT
```

Output Message(s):

```
ALW:HDW-ONTC
INH:HDW-ONTC
```

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```
OP:CFGSTAT
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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INH:HDW-PCTDX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on a peripheral control and timing data exchanger (PCTDX)

2. FORMAT

```
INH:HDWCHK,PCTDX=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the INH:HDW-PCTDX output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

`c` = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:HDW-PCTDX
```

Output Message(s):

```
INH:HDW-PCTDX
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1330,y (PDXU)

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INH:HDW-PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on a PCT (Peripheral Control and Timing) line and trunk unit link.

2. FORMAT

```
INH:HDWCHK,PLTLK=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `REASON FOR NG` = The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. An INH:HDW PLTLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

```
ABT:PLTLK
DGN:PLTLK
STP:PLTLK
RMV:PLTLK
SW:PLTLK
ALW:HDW-PLTLK
```

Output Message(s):

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```
INH:HDW-PLTLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1430 (PLTU Status page)

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INH:HDW-PPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the hardware error checks performed on the specified pump peripheral controller (PPC).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,PPC=a;
```

3. EXPLANATION OF MESSAGE

`a` = PPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows. Followed by the INH:HDW-PPC output message.

5. REFERENCES

Input Message(s):

```
ALW:HDW-PPC
OP:CFGSTAT
```

Output Message(s):

```
INH:HDW-PPC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on a packet switch unit (PSU) common controller (COM).

2. FORMAT

```
INH:HDWCHK,PSUCOM=a-b-c[-d];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-PSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:HDW-PSUCOM`

Output Message(s):

`INH:HDW-PSUCOM`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

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118x	PSU SHELF
1186	PSU NETWORK

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INH:HDW-PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on a packet switch unit (PSU) common controller (COM).

2. FORMAT

```
INH:HDWCHK,PSUCOM=a-b-c[-d];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-PSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-PSUCOM
```

Output Message(s):

```
INH:HDW-PSUCOM
INH:HDW-PSUPH
```

Input Appendix(es):

```
APP:RANGES
```

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MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)

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INH:HDW-PSUPH-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on a packet switch unit (PSU) protocol handler (PH).

2. FORMAT

```
INH:HDWCHK,PSUPH=a-b-c[-d];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:HDW-PSUPH output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:HDW-PSUPH`

Output Message(s):

`INH:HDW-PSUPH`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

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118x	PSU SHELF
1186	PSU NETWORK

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INH:HDW-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on a packet switch unit (PSU) protocol handler (PH).

2. FORMAT

```
INH:HDWCHK,PSUPH=a-b-c[-d];
```

3. EXPLANATION OF MESSAGE

a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c-d	= Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c-d	= Protocol handler number.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the INH:HDW-PSUPH output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-PSUPH
```

Output Message(s):

```
INH:HDW-PSUCOM
INH:HDW-PSUPH
```

Input Appendix(es):

```
APP:RANGES
```

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MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)

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INH:HDW-QGP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the hardware checks on the specified quad-link packet switch gateway processor (QGP) be inhibited. The children of the QGP are inhibited to some extent.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,QGP=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the INH:HDW-QGP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-QGP
OP:HDWCHK
```

Output Message(s):

```
ALW:HDW-QGP
```

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```
INH:HDW-QGP
OP:HDWCHK
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241/51 (MSGS COMMUNITIES 0-1, 8-9)
1240/50 (MSGS STATUS for CM3)
1380/1 (QLPS NETWORK 0/1 STATUS)

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INH:HDW-RAF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks in a recorded announcement function (RAF) unit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

2. FORMAT

```
INH:HDWCHK,RAF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the INH:HDW-RAF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

```
ALW:HDW-RAF
```

Output Message(s):

```
ALW:HDW-RAF
INH:HDW-RAF
```

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Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-RCL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the hardware error checks performed on the specified remote communication link (RCL) be inhibited.

2. FORMAT

```
INH:HDWCHK,RCL=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Message(s):

```
INH:HDW-RCL
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-RCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level. This message will also inhibit hardware checks from occurring on the mate remote clock cross couple (RCXC) if the RCXC is in service.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,RCLK=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `NG NOT STARTED UNIT IN GROWTH STATE`
- `NG SM DOES NOT EXIST`
- `NG SM UNEQUIPPED`
- `NG UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the INH:HDW-RCLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:HDW-RCLK`

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```
ALW:HDW-RCXC
INH:HDW-RCXC
```

Output Message(s):

```
ALW:HDW-RCLK
ALW:HDW-RCXC
INH:HDW-RCLK
INH:HDW-RCXC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-RCOSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock oscillator (RCOSC) circuit. This message will also inhibit hardware checks from occurring on the associated remote clock oscillator cross couple (RCOXC) if the RCOXC is in service.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,RCOSC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RCOSC side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

`PF` = Printout follows. Followed by the INH:HDW-RCOSC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-RCOSC
ALW:HDW-RCOXC
INH:HDW-RCOXC
```

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Output Message(s):

```
ALW:HDW-RCOSC
ALW:HDW-RCOXC
INH:HDW-RCOSC
INH:HDW-RCOXC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-RCOXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock oscillator cross couple (RCOXC) circuit.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,RCOXC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RCOXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- NG UNIT DOES NOT EXIST
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED

`PF` = Printout follows. Followed by the INH:HDW-RCOXC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-RCOSC
ALW:HDW-RCOXC

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Output Message(s):

```
ALW:HDW-RCOXC
INH:HDW-RCOXC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-RCREF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock reference (RCREF).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,RCREF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Equipped reference number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `NG UNIT DOES NOT EXIST` = The requested unit does not exist in the system.
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified is unequipped.

`PF` = Printout follows. Followed by the INH:HDW-RCREF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:HDW-RCREF`

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Output Message(s):

```
ALW:HDW-RCREF
INH:HDW-RCREF
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-RCXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock cross couple (RCXC) circuit.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

```
INH:HDWCHK,RCXC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

`PF` = Printout follows. Followed by the INH:HDW-RCXC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-RCXC
INH:HDW-RCLK
```

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Output Message(s):

```
ALW:HDW-RCXC
INH:HDW-RCLK
INH:HDW-RCXC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-RDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified remote switching module (RSM) digital facilities interface (RDFI) circuit.

2. FORMAT

```
INH:HDWCHK,RDFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the INH:HDW-RDFI output message.

5. REFERENCES

Input Message(s):

`ALW:HDW-RDFI`

Output Message(s):

`INH:HDW-RDFI`

Input Appendix(es):

`APP:RANGES`

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INH:HDW-RLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.

2. FORMAT

```
INH:HDWCHK,RLI=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the INH:HDW-RLI output message.

5. REFERENCES

Input Message(s):

`ALW:HDW-RLI`

Output Message(s):

`INH:HDW-RLI`

Input Appendix(es):

`APP:RANGES`

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INH:HDW-RRCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks in a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK). The system inhibits the hardware checks if internal status allows the transition. The system requires an ALW:HDW-RRCLK input message to enable the hardware checks.

2. FORMAT

```
INH:HDWCHK,RRCLK=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RRCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

`PF` = Printout follows. Followed by the INH:HDW-RRCLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-RRCLK

Output Message(s):

INH:HDW-RRCLK

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Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-RVPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified revertive pulsing transceiver (RVPT).

2. FORMAT

```
INH:HDWCHK,RVPT=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Unit number.

`c` = Service group.

`d` = Circuit number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Output message will follow with completion status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-RVPT
```

Output Message(s):

```
INH:HDW-RVPT
```

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INH:HDW-SAS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks in a service announcement system (SAS) unit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

2. FORMAT

```
INH:HDWCHK,SAS=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the INH:HDW-SAS output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

```
ALW:HDW-SAS
```

Output Message(s):

```
ALW:HDW-SAS
INH:HDW-SAS
```

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Input Appendix(es):

APP:RANGES

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INH:HDW-SDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified *SLC*®96 digital facility interface (SDFI).

2. FORMAT

```
INH:HDWCHK,SDFI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the INH:HDW-SDFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
INH:HDW-SDFI
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-SFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

2. FORMAT

```
INH:HDWCHK,SFI=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the INH:HDW-SFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-SFI
```

Output Message(s):

```
INH:HDW-SFI
```

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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INH:HDW-SM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all hardware error checks be inhibited in one or more switching modules (SMs). This message has the effect of inhibiting all module controller/time slot interchange unit (MCTSI) interrupts, resets, maintenance service requests, and peripheral fault recovery actions for the selected SMs.

This inhibit will remain in effect through all processor initializations [except emergency action interface (EAI) input message 54] until manually allowed.

WARNING: Inhibiting hardware checks disables all hardware error detection circuitry, puts the processor in a slow state and disables the cache memory. This will result in degraded SM performance and will prevent the system from recovering automatically from it's hardware faults.

The performance reduction is associated with degraded modes of the MCTSI; these are described in more detail under the INH:HDW-MCTSI message. ALW:HDW-MCTSI may be used to remove the performance effects (and allow certain errors) while keeping the overall SM hardware checks inhibited. The degree of performance reduction and its impact will vary with the SM type, equipage and load.

2. FORMAT

```
INH:HDWCHK,SM=a[&&b][,LSM][,HSM][,RSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number, or lower limit of a range of SMs.

`b` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`IP` = In progress. The message was accepted and the request is in progress. The state of the hardware checks can be determined by examining Master Control Center (MCC) page INH & RCVY CNTL.

`NG` = No good. The message was not accepted because an illegal SM number or range was specified.

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5. REFERENCES

Input Message(s):

```
ALW:HDW-MCTSI
ALW:HDW-SM
INH:HDW-MCTSI
OP:SYSSTAT
```

Output Message(s):

```
INH:HDW-SM
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*

MCC Display Page(s):

1800,X (INH & RCVY CNTL)

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INH:HDW-TAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified test and access circuit (TAC).

2. FORMAT

```
INH:HDWCHK,TAC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:HDW-TAC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-TEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified trunk equipment number (TEN) circuit.

2. FORMAT

```
INH:HDWCHK,TEN=a-b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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INH:HDW-TMUX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

2. FORMAT

```
INH:HDWCHK,TMUX=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with the current status.
PF	= Printout follows. Followed by the INH:HDW-TMUX output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-TMUX
```

Output Message(s):

```
INH:HDW-TMUX
```

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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INH:HDW-TTFCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified transmission test facility common (TTFCOM) circuit pack.

2. FORMAT

```
INH:HDWCHK,TTFCOM=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital service circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:HDW-TTFCOM
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-UCONF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified universal conference (UCONF) circuit board.

2. FORMAT

```
INH:HDWCHK,UCONF=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

a	= Switching module number.
b	= Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Digital service circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:HDW-UCONF
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDW-UTD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified universal tone decoder (UTD).

2. FORMAT

```
INH:HDWCHK,UTD=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

`INH:HDW-UTD`

Input Appendix(es):

`APP:RANGES`

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INH:HDW-UTG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified universal tone generator (UTG).

2. FORMAT

```
INH:HDWCHK,UTG=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

a	= Switching module (SM) number.
b	= Digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:HDW-UTG
```

Input Appendix(es):

```
APP:RANGES
```

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INH:HDWCHK

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that the system status register be set such that a control unit (CU) switch is not implemented as a normal fault recovery action. This inhibits a switch to the standby administrative module (AM) control unit when a fault occurs in the active AM control unit.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in the active CU.

2. FORMAT

```
INH:HDWCHK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:HDWCHK output message.

5. REFERENCES

Input Message(s):

```
ALW:HDWCHK
INH:ERRCHK
OP:ERRCHK
```

Output Message(s):

```
ALW:HDWCHK
INH:HDWCHK
OP:ERRCHK
```

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INH:HIST

Software Release: 5E15 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Inhibits history recording for the terminal upon which it is entered. Subsequent input messages entered at the terminal will not be stored for recall. INH:HIST does not clear the input message history buffer.

Input messages that were previously stored in the input message history buffer will still be available for recall and edit, until a CLR:HIST is entered or the terminal is reinitialized.

INH:HIST can be used to prevent the storage of sensitive input messages. This gives insurance that such messages will not be recalled and entered into the system unintentionally. When the input messages being entered become non-sensitive, ALW:HIST can be entered to re-enable history recording.

2. FORMAT

```
INH:HIST
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = OK. Input message was accepted and has been applied.

5. REFERENCES

Input Message(s):

```
ALW:HIST
CLR:HIST
OP:HIST
```

Output Message(s):

```
OP:HIST
```

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INH:HWGRD

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of a line removal message on the receive-only printer (ROP) be inhibited when a line unit, dial tone first (DTF) coin, or integrated services line unit (ISLU) Z-card (analog line) is placed out-of-service (OOS) maintenance (MTCE) high-and-wet (HW) ground (GRD).

2. FORMAT

```
INH:HWGRD[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number or the lower limit of a range of SMs.

`b` = The upper limit of a range of SMs.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. Followed by the INH:HWGRD output message.

5. REFERENCES

Input Message(s):

```
ALW:HWGRD
```

Output Message(s):

```
INH:HWGRD
ALW:HWGRD
```

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INH:IMSMEAS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the interprocess message switch (IMS) measurements inhibit flag be changed and displayed. If the IMS measurements inhibit flag is ON, the only IMS measurements which will be available are the IMS office measurements, the RPC node measurements, and the IMNPDIF, OOSCFG, OOSCFGT, OOSAU, OOSAUT, OOSMN, and OOSMNT IUN measurements.

2. FORMAT

```
INH:IMSMEAS:{ON|OFF|STATUS};
```

3. EXPLANATION OF MESSAGE

`ON` = Turn the inhibit ON, prohibiting collection and accumulation of certain IMS measurements.

`OFF` = Turn the inhibit OFF, permitting collection and accumulation of all IMS measurements.

`STATUS` = Display the current status of the inhibit flag.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

```
INH:IMSMEAS
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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INH:MDII-A

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of a specific machine-detected interoffice irregularity (MDII) be suppressed. If the suppressed MDII occurs on the trunk group, no REPT:MDII output message will be generated.

2. FORMAT

```
INH:MDII=a,TG=b;
```

3. EXPLANATION OF MESSAGE

`a` = The MDII suppressed on a trunk group. Valid value(s):

`2SPDT`	= Partial dial timeout in the second stage of a traditional 2-stage international outbound call.
`2SPST`	= Permanent signal timeout in the second stage of a traditional 2-stage international outbound call.
`2SVCA`	= Vacant code in the second stage of a traditional 2-stage international outbound call.
`ABF`	= Abandon failure.
`ACK`	= No acknowledgment wink.
`ANF`	= Failure to receive automatic number identification (ANI) digits on incoming LATA trunk.
`ANF2`	= ANI collected by an operator following a failure to receive ANI digits on an incoming centralized automatic message accounting (CAMA) trunk.
`ANI`	= Time-out waiting for far off-hook from Traffic Service Position System (TSPS) before sending ANI digits.
`AST`	= Position acknowledge seizure signal time-out.
`ATO`	= Time-out waiting for address complete signal.
`BAF`	= Blocking acknowledgment failure.
`BLFCA`	= Blocking a fully coded addressed international outbound call routed to a non-CCS trunk.
`CAF`	= Circuit reset acknowledgment failure.
`CAI`	= Address incomplete received.
`CII`	= Initial address message (IAM) irregularity (incoming).
`CKF`	= Continuity check failure (incoming).
`COF`	= Confusion received (outgoing).
`CQR`	= Circuit query message (CQM) timed out while waiting for a circuit query reply (CQR) message.
`CRA`	= Circuit reservation message (CRM) timer timed out while waiting for a circuit reservation acknowledgment (CRA) message.
`CRR`	= Reset received (incoming).
`CTO`	= Continuity timeout (incoming).
`CVN`	= Vacant national number received (outgoing).

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DDF	= Delay dial, steady off-hook.
DSN	= Delay dial, steady on-hook.
EXD	= Extra digit.
EXP	= Extra pulse.
FCA	= Final closure abandon.
FKP	= False key pulse.
FSA	= False start abandon.
HGBAF	= Hardware group blocking acknowledgment failure.
HGUAF	= Hardware group unblocking acknowledgment failure.
IAD	= Incomplete address detected (incoming).
IAM	= CRA timer timed out while waiting for an IAM.
ICA	= Incoming advance.
IDIG	= Invalid digit.
KPST	= Received call on an equal access trunk which contains a KP + ST ANI sequence.
MCA	= Misrouted CAMA.
MGBAF	= Maintenance group blocking acknowledgment failure.
MGUAF	= Maintenance group unblocking acknowledgment failure.
MPS	= Misplaced start pulse.
MRF	= Message refusal received (outgoing).
MTD	= Mutilated digit.
NACK	= No ground acknowledgment received on a ground start private facility (FX) trunk.
NKP	= No key pulse.
NOANI	= Received call on equal access trunk which contains no ANI information. This call will not be blocked.
ONOA	= OSPS nature of address.
OSI	= Operator services information.
PAT	= Position attached signal time-out.
PDA	= Partial dial abandon.
PDT	= Partial dial time-out.
PFR	= Polarity failure.
PST	= Permanent signal time-out.
RLG	= Release guard on unstable call (outgoing).
RST	= Reset received (outgoing).
SGD	= Failure to receive station group designator (SGD).
SSD	= No second start dial wink.
TRR	= Tip-ring reversal.
TTR	= Operator trunk trouble reports.
UAF	= Unblocking acknowledgment failure.
UCA	= Unauthorized CAMA.
UQL	= Unequipped label received (outgoing).
UXS	= Unexpected stop.
VCA	= Vacant code.
VPA	= Voice path assurance timeout (outgoing).
WBF	= Incoming wideband call spans facilities or trunk groups.
WSN	= Wink start, steady on-hook.
WSR	= Wink start, steady off-hook.
XST	= Expected stop time-out.

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b = Trunk group being suppressed.

4. SYSTEM RESPONSE

NA = No acknowledgment. Request has not been acknowledged. It is probable that the request has been lost.

PF = Printout follows. Request has been accepted. Followed by the INH:MDII output message identifying the results of the request.

5. REFERENCES

Input Message(s):

```
ALW:MDII
OP:MDII
```

Output Message(s):

```
INH:MDII
OP:MDII
REPT:MDII
```

Output Appendix(es):

```
APP:MDII
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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INH:MDII-B

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of a specific machine-detected interoffice irregularity (MDII) be suppressed. If the suppressed MDII occurs on the trunk group, no REPT:MDII output message will be generated.

2. FORMAT

```
INH:MDII=a,TG=b;
```

3. EXPLANATION OF MESSAGE

`a` = The MDII suppressed on a trunk group. Valid value(s):

- `2SPDT` = Partial dial timeout in the second stage of a traditional 2-stage international outbound call.
- `2SPST` = Permanent signal timeout in the second stage of a traditional 2-stage international outbound call.
- `2SVCA` = Vacant code in the second stage of a traditional 2-stage international outbound call.
- `ABF` = Abandon failure.
- `ACK` = No acknowledgment wink.
- `ANF` = Failure to receive automatic number identification (ANI) digits on incoming LATA trunk.
- `ANF2` = ANI collected by an operator following a failure to receive ANI digits on an incoming centralized automatic message accounting (CAMA) trunk.
- `ANI` = Time-out waiting for far off-hook from Traffic Service Position System (TSPS) before sending ANI digits.
- `APMTO` = Application transport message time out.
- `AST` = Position acknowledge seizure signal time-out.
- `ATO` = Time-out waiting for address complete signal.
- `BAF` = Blocking acknowledgment failure.
- `BLFCA` = Blocking a fully coded addressed international outbound call routed to a non-CCS trunk.
- `CAF` = Circuit reset acknowledgment failure.
- `CAI` = Address incomplete received.
- `CHRTO` = Connection Hold Release Request Timeout at the Originating Switch.
- `CII` = Initial address message (IAM) irregularity (incoming).
- `CKF` = Continuity check failure (incoming).
- `COF` = Confusion received (outgoing).
- `CQR` = Circuit query message (CQM) timed out while waiting for a circuit query reply (CQR) message.
- `CRA` = Circuit reservation message (CRM) timer timed out while waiting for a circuit reservation acknowledgment (CRA) message.
- `CRR` = Reset received (incoming).
- `CTO` = Continuity timeout (incoming).

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CVN	= Vacant national number received (outgoing).
DDF	= Delay dial, steady off-hook.
DSN	= Delay dial, steady on-hook.
EXD	= Extra digit.
EXP	= Extra pulse.
FCA	= Final closure abandon.
FKP	= False key pulse.
FSA	= False start abandon.
HGBAF	= Hardware group blocking acknowledgment failure.
HGUAF	= Hardware group unblocking acknowledgment failure.
IAD	= Incomplete address detected (incoming).
IAM	= CRA timer timed out while waiting for an IAM.
ICA	= Incoming advance.
IDIG	= Invalid digit.
IPSIG	= Internet protocol signal data error.
KPST	= Received call on an equal access trunk which contains a KP + ST ANI sequence.
MCA	= Misrouted CAMA.
MGBAF	= Maintenance group blocking acknowledgment failure.
MGUAF	= Maintenance group unblocking acknowledgment failure.
MPS	= Misplaced start pulse.
MRF	= Message refusal received (outgoing).
MTD	= Mutilated digit.
NACK	= No ground acknowledgment received on a ground
NCA	= No circuit available. start private facility (FX) trunk.
NKP	= No key pulse.
NOANI	= Received call on equal access trunk which contains no ANI information. This call will not be blocked.
ONOA	= OSPS nature of address.
OSI	= Operator services information.
PAT	= Position attached signal time-out.
PDA	= Partial dial abandon.
PDT	= Partial dial time-out.
PFR	= Polarity failure.
PST	= Permanent signal time-out.
RLG	= Release guard on unstable call (outgoing).
RST	= Reset received (outgoing).
SGD	= Failure to receive station group designator (SGD).
SSD	= No second start dial wink.
TRR	= Tip-ring reversal.
TTR	= Operator trunk trouble reports.
UAF	= Unblocking acknowledgment failure.
UCA	= Unauthorized CAMA.
UQL	= Unequipped label received (outgoing).
UXS	= Unexpected stop.
VCA	= Vacant code.
VPA	= Voice path assurance timeout (outgoing).
WBF	= Incoming wideband call spans facilities or trunk groups.
WSN	= Wink start, steady on-hook.

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WSR = Wink start, steady off-hook.
XST = Expected stop time-out.

b = Trunk group being suppressed.

4. SYSTEM RESPONSE

NA = No acknowledgment. Request has not been acknowledged. It is probable that the request has been lost.

PF = Printout follows. Request has been accepted. Followed by the INH:MDII output message identifying the results of the request.

5. REFERENCES

Input Message(s):

```
ALW:MDII
OP:MDII
```

Output Message(s):

```
INH:MDII
OP:MDII
REPT:MDII
```

Output Appendix(es):

```
APP:MDII
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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INH:MISMATCH

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that line card/network termination (NT) mismatch detection be inhibited on integrated services digital network (ISDN) lines equipped with U-cards. To be certain of the results of this message, the following three conditions should be noted.

First, INH:MISMATCH,REPT will only inhibit the printout on the receive-only printer (ROP) of the lines that have mismatches. INH:MISMATCH,REPT does not disable mismatch detection. Second, INH:MISMATCH without the report (REPT) option will inhibit mismatch detection but will leave reporting enabled if the INH:MISMATCH,REPT message isn't also entered. If mismatch detection is inhibited without inhibiting mismatch report, no output will be printed on the ROP, but printout on the ROP will automatically resume if the ALW:MISMATCH message is entered at a later time. Third, to inhibit the NT mismatch detection and the NT mismatch report for the entire office, set the office parameters to N, using Recent Change/Verify (RC/V) OFFICE PARAMETERS view 8.1 (OFFICE PARAMETERS).

NOTE: Inhibiting mismatch detection will prevent the OOS BLKD - DYGSPUS AUTO port status from being automatically updated to either the OOS BLKD - NTPWR AUTO or OOS BLKD - UINTF AUTO status. Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Messages manual for more information on the OOS BLKD - DYGSPUS AUTO status.

2. FORMAT

```
INH:MISMATCH[,REPT][,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`REPT` = Inhibit the reporting on the ROP of the lines found to have mismatches.

`a` = SM number or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. Followed by the INH:MISMATCH output message.

5. REFERENCES

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Input Message(s):

```
ALW:MISMATCH
```

Output Message(s):

```
INH:MISMATCH
ALW:MISMATCH
```

Output Appendix(es):

```
APP:PORT-STATUS
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1 (OFFICE PARAMETERS)

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INH:MON

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the operating system for distributed switching (OSDS) monitor actions be inhibited.

The INH:MON messages deactivates the OSDS monitor by setting the monitor control word to zero. This is the first word of the OShisarray monitor buffer in the administrative module (AM) or the SIhistory monitor buffer in the switching module (SM) or the communications module processor (CMP).

2. FORMAT

```
INH:MON,{AM|SM=a|CMP=b-c};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number.

`b` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Communications module processor (CMP) number.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows. Followed by the INH:MON output message.

`RL` = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
ALW:MON
```

Output Message(s):

```
ALW:MON
INH:MON
```

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Input Appendix(es):

APP:RANGES

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INH:NMOUT-A

Software Release: 5E15 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of output messages stimulated by the remote network management center (RNMC) be inhibited.

2. FORMAT

```
INH:NMOUT[,TYPE=a];
```

3. EXPLANATION OF MESSAGE

`a` = Message type. Valid value(s):

`CGAP`	= Call gapping code controls messages.
`DOC`	= Dynamic overload controls messages.
`SILC`	= Selective incoming load controls messages.
`SSTR`	= Service selective trunk reservation controls messages.
`TGC`	= Manual trunk group controls messages.
`TR`	= Trunk reservation controls messages.

The default is to inhibit all output messages resulting from RNMC actions.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.
- `INVALID TYPE` = The request has been denied. An invalid message type was entered.

`OK` = Good. The inhibit was successful.

5. REFERENCES

Input Message(s):

```
ALW:NMOUT
OP:NMOUT
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

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INH:NMOUT-B

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of output messages stimulated by the remote network management center (RNMC) be inhibited.

NOTE: Total office clear output messages stimulated by the RNMC will not be inhibited.

2. FORMAT

```
INH:NMOUT[,TYPE=a];
```

3. EXPLANATION OF MESSAGE

`a` = Message type. Valid value(s):

`CGAP`	= Call gapping code controls messages.
`DOC`	= Dynamic overload controls messages.
`SILC`	= Selective incoming load controls messages.
`SSTR`	= Service selective trunk reservation controls messages.
`TGC`	= Manual trunk group controls messages.
`TR`	= Trunk reservation controls messages.
`HTR`	= Hard-to-reach controls messages.

The default is to inhibit all output messages resulting from RNMC actions.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. May also include:
- `INVALID REQUEST` = This office is not equipped to process the request entered.
- `INVALID TYPE` = An invalid message type was entered.
- `FEATURE NOT AVAILABLE` = The HTR feature is not available.

`OK` = Good. The inhibit was successful.

5. REFERENCES

Input Message(s):

```
ALW:NMOUT
OP:NMOUT
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

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INH:PCTF

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the per-call test failure (PCTF) verbose mode be inhibited. Inhibiting the PCTF verbose mode on a switching module (SM) causes only the first and tenth occurrence of a PCTF type on a line to be reported daily. When the PCTF verbose mode is not inhibited (allowed), every PCTF occurrence will be reported in an individual REPT:PCTF report.

2. FORMAT

```
INH:PCTF,VERBOSE[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

`a` = SM number or the lower limit of a range of SM numbers (default is all equipped SMs).

`b` = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. Followed by the INH:PCTF output message.

5. REFERENCES

Input Message(s):

```
ALW:PCTF
```

Output Message(s):

```
INH:PCTF
ALW:PCTF
REPT:PCTF
```

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INH:PLNT24-A

Software Release: 5E15 - 5E16(2)
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the regularly scheduled 24-hour plant report be inhibited from printing to the ROP. The specified part(s) will not be printed until allowed by the ALW:PLNT24 input message.

2. FORMAT

```
INH:PLNT24:{a|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Inhibit all parts of the 24-hour plant report.

`a` = Name of report part to be inhibited. Valid value(s):

- `PART1` = Service measurements.
- `PART2` = Equipment performance.
- `PART3` = Performance measurements.
- `PART4` = Remote switching module (RSM) maintenance service and performance.
- `PART5` = Trunk error analysis.
- `PART6` = Interlata carrier measurements.
- `PART7` = Network call denial.
- `PART8` = RSM cluster measurements.
- `PART9` = Integrated services digital network (ISDN) packet switching office totals.
- `PART10` = Operator Services Position System (OSPS) processors counts.
- `PART11` = ISDN office totals.
- `PART13` = OSPS real-time rating query measures.
- `PART14` = OSPS facility administration measures.
- `PART15` = OSPS measurements.
- `PART16` = OSPS interflow measures.
- `PART17` = OSPS line information database (LIDB) measures.
- `PART18` = OSPS customer account services (CAS).
- `PART19` = Action control point (ACP) for software defined network.
- `PART21` = Leased network action point
- `PART22` = OSPS intercept measures.
- `PART23` = OSPS customer account services release 3 signaling measures.
- `PART24` = Machine detected inter-office irregularity (MDII) trunk group measurements.
- `PART25` = ISDN user part (ISUP) office totals.
- `PART26` = DS1 measurements.
- `PART27` = Static proportionate bidding (PB) measurements.
- `PART28` = OSPS international credit card validation (ICCV) measures by foreign database.
- `PART29` = OSPS line applications for consumers (LAC) signaling measures.
- `PART30` = OSPS originating line number screening (OLNS) measures.
- `PART36` = Signaling link performance.

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4. SYSTEM RESPONSE

NG = No good. May also include:
- (blank) = The request was made during the automatic preparation of the report. The message OP:PLNT24-NOT will follow.
- – DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

OK = Good. The part(s) was/were inhibited.

5. REFERENCES

Input Message(s):

```
ALW:PLNT24
OP:PLNT24
OP:ST-PLNT24
```

Output Message(s):

```
OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNT24-PT19
OP:PLNT24-PT21
OP:PLNT24-PT22
OP:PLNT24-PT23
OP:PLNT24-PT24
OP:PLNT24-PT25
OP:PLNT24-PT26
```

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```
OP:PLNT24-PT27
OP:PLNT24-PT28
OP:PLNT24-PT29
OP:PLNT24-PT30
OP:PLNT24-PT36
OP:ST-PLNT24
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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INH:PLNT24-B

Software Release: 5E17(1) and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the regularly scheduled 24-hour plant report be inhibited from printing to the ROP. The specified part(s) will not be printed until allowed by the ALW:PLNT24 input message.

2. FORMAT

```
INH:PLNT24:{a|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Inhibit all parts of the 24-hour plant report.

`a` = Name of report part to be inhibited. Valid value(s):

- `PART1` = Service measurements.
- `PART2` = Equipment performance.
- `PART3` = Performance measurements.
- `PART4` = Remote switching module (RSM) maintenance service and performance.
- `PART5` = Trunk error analysis.
- `PART6` = Interlata carrier measurements.
- `PART7` = Network call denial.
- `PART8` = RSM cluster measurements.
- `PART9` = Integrated services digital network (ISDN) packet switching office totals.
- `PART10` = Operator Services Position System (OSPS) processors counts.
- `PART11` = ISDN office totals.
- `PART13` = OSPS real-time rating query measures.
- `PART14` = OSPS facility administration measures.
- `PART15` = OSPS measurements.
- `PART16` = OSPS interflow measures.
- `PART17` = OSPS line information database (LIDB) measures.
- `PART18` = OSPS customer account services (CAS).
- `PART19` = Action control point (ACP) for software defined network.
- `PART21` = Leased network action point
- `PART22` = OSPS intercept measures.
- `PART23` = OSPS customer account services release 3 signaling measures.
- `PART24` = Machine detected inter-office irregularity (MDII) trunk group measurements.
- `PART25` = ISDN user part (ISUP) office totals.
- `PART26` = DS1 measurements.
- `PART27` = Static proportionate bidding (PB) measurements.
- `PART28` = OSPS international credit card validation (ICCV) measures by foreign database.
- `PART29` = OSPS line applications for consumers (LAC) signaling measures.
- `PART30` = OSPS originating line number screening (OLNS) measures.
- `PART36` = Signaling link performance.

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PART37 = ATM quality of service.
PART38 = ATM quality of service for PSU to PSU connection.

4. SYSTEM RESPONSE

NG = No good. May also include:
(blank) = The request was made during the automatic preparation of the report. The message OP:PLNT24-NOT will follow.
– DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

OK = Good. The part(s) was/were inhibited.

5. REFERENCES

Input Message(s):

```
ALW:PLNT24
OP:PLNT24
OP:ST-PLNT24
```

Output Message(s):

```
OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNT24-PT19
OP:PLNT24-PT21
OP:PLNT24-PT22
OP:PLNT24-PT23
```

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```
OP:PLNT24-PT24
OP:PLNT24-PT25
OP:PLNT24-PT26
OP:PLNT24-PT27
OP:PLNT24-PT28
OP:PLNT24-PT29
OP:PLNT24-PT30
OP:PLNT24-PT36
OP:PLNT24-PT37
OP:PLNT24-PT38
OP:ST-PLNT24
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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INH:PLNTHR

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of the hourly plant report be inhibited.

2. FORMAT

```
INH:PLNTHR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request was accepted and completed.

5. REFERENCES

Input Message(s):

```
ALW:PLNTHR
OP:MEASTAT
OP:PLNTHR
```

Output Message(s):

```
OP:MEASTAT-CLCT
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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INH:PM

Software Release: 5E17(1) and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that performance monitoring (PM) session be inhibited.

2. FORMAT

```
[1]    INH:PM,SESTYPE=a,SESID=b[&&c];
       ____________________________________________________________

[2]    INH:PM,SESTYPE=a,PSALNK=d-e-f;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Type of performance monitoring session.

`b` = Session ID - lower limit session ID in a range of session IDs. The minimum session ID number is 1.

`c` = Upper limit session ID in a range of session IDs. The maximum session ID number is 1024.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = ATM link number. Range is 1-10.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by the INH:PM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:PM`

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Output Message(s):

```
INH:PM
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):
1187,y,z PSU/ATM LINKS STATUS (where y=PSU number and z=SM number)

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INH:PSLT

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that the inhibit for the periodic signaling link test (PSLT) be set, reset or reported. When the inhibit is 'ON' for any particular link, periodic signaling link tests for that link are not done. When the inhibit is 'OFF' periodic tests are run.

2. FORMAT

```
INH:PSLT={ALL|a-b}:c;
```

3. EXPLANATION OF MESSAGE

`ALL` = All links.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Request type. Valid value(s):

`OFF`	= The PSLT is allowed.
`ON`	= The PSLT is inhibited.
`STATUS`	= Reports the status of the links.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:PSLT output message. For either the '`ON`' or '`OFF`' request the PSLT inhibit is conditioned according to the input request. When the '`STATUS`' option is specified the system will output a report for the requested link(s).

5. REFERENCES

Output Message(s):

```
INH:PSLT
```

Other Manual(s):
235-190-120 *Common Channel Signaling Services and Associated Signaling Service Feature*

MCC Display Page(s):

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118 (CNI RING STATUS PAGE)
1521 (SIGNALING LINK SUMMARY PAGE)
1522 (SIGNALING LINK PAGE)

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INH:PUMP-SM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be inhibited on a major initialization (selective initialization or full initialization).

This inhibit will remain in effect through all processor initializations (with the exception of emergency action interface (EAI) input message 54) until manually allowed.

2. FORMAT

```
INH:PUMP,{CMP=a|SM=b[&&c][,LSM][,HSM][,RSM][,ORM][,TRM]};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = CMP number.

`b` = SM number, or the lower limit of a range of SM numbers.

`c` = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because an illegal SM number or invalid range/type combination was specified. The message was not accepted because an illegal CMP number combination was specified.

`OK` = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

```
ALW:PUMP-SM
OP:SYSSTAT
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

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1800 (SM INH & RCVRY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)

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INH:RBPSC-SM

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Inhibits alarms from a single specific REMOTE building or miscellaneous alarm scan point.

2. FORMAT

```
INH:RBPSC=a:SM=b;
```

3. EXPLANATION OF MESSAGE

`a` = Scan point number in bldg/misc group. as displayed on the master control center (MCC) remote alarms page. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Switching module (SM) number (must be module type that has remote alarm process active).

4. SYSTEM RESPONSE

`NG` = No good. The request is invalid.

`PF` = Printout follows. The request is being processed. Followed by the INH:RBPSC-SM output message.

`RL` = Retry later. The system is unable to process the request at this time.

5. REFERENCES

Output Message(s):

`INH:RBPSC-SM`

Input Appendix(es):

`APP:RANGES`

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INH:RC

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that all office-dependent data (ODD) recent change (RC) activity be inhibited. All RC terminals must be logged off before executing this input message. This message should only be used during a retrofit, during a BKUP:ODD and for certain software update installations.

2. FORMAT

```
INH:RC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
ALW:RC
BKUP:ODD
INH:CORC
```

Output Message(s):

```
INH:RC
```

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INH:RCDLY

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that all telephone activations of recent change delayed messages (RCDMs) be inhibited in the system.

2. FORMAT

```
INH:RCDLY;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

```
ALW:RCDLY
OP:RCDLY
```

Output Message(s):

```
REPT:RCDLY
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-2xx *Recent Change Procedures Batch Release*

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INH:RCLOG

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Inhibits the logging of recent changes for all processors. This message should be used only when the logging of recent changes is causing a problem in the system but some recent changes must be entered in the system.

This message could cause inconsistent office dependent data. The recent changes that are not logged will be lost after a boot. This message does not affect customer-originated recent changes.

2. FORMAT

```
INH:RCLOG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The input message is not valid.

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

`INH:CORCLOG-SM`

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INH:REORD

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the collection of additional information for calls routed to reorder be terminated. Data collected since an ALW:REORD-SM will be reported on the receive-only printer (ROP) if the print option is specified.

2. FORMAT

```
INH:REORD[,PRINT];
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. Request was denied because the requested feature was not active.

`OK` = Good. Request was accepted.

5. REFERENCES

Input Message(s):

```
ALW:REORD-SM
```

Output Message(s):

```
REPT:REORD
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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INH:REORG

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Inhibits automatic reorganization of database relations. This message will inhibit automatic reorganizations triggered by the SET:REORG scheduling mechanism and on-demand reorganizations triggered by the EXC:REORG input message. Relations needing reorganization are reported by the REPT:REORG output message.

2. FORMAT

```
INH:REORG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

```
ALW:REORG
EXC:REORG
SET:REORG
```

Output Message(s):

```
REPT:REORG
```

Other Manual(s):
235-105-220 *Data Base Maintenance and Repairs*

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INH:REPORT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the status or changes the value of the report inhibit flag. If the report's inhibit flag is ON, common network interface (CNI) measurement reports are inhibited.

2. FORMAT

```
INH:REPORT:a;
```

3. EXPLANATION OF MESSAGE

a	= Type of request. Valid value(s):	
	OFF	= Turn the inhibit OFF, allowing measurement reports.
	ON	= Turn the inhibit ON, prohibiting measurement reports.
	STATUS	= Display the current status of the inhibit flag.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the INH:REPORT output message.

5. REFERENCES

Input Message(s):

```
INH:IMSMEAS
INH:TRFC15
INH:TRFC30
OP:SMR
```

Output Message(s):

```
INH:REPORT
```

Other Manual(s):
235-120-190 *Common Channel Signaling and Associated Signaling Service Features*

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INH:REX-AM-SM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Inhibits either one or all three test types of routine exercise of the hardware in the administrative module (AM) and switching modules (SMs). Routine exercises may be inhibited in the administrative module or in one switching module or in the AM and all SMs.

This action is effective for only one routine exercise session. If the tests are in progress when this message is received, the tests are not stopped, but inhibit action is taken for the next session.

2. FORMAT

```
INH:REX[{,AM|,SM=a}][,b];
```

3. EXPLANATION OF MESSAGE

`AM` = Inhibits hardware exercise tests in the AM.

`a` = The number of the switching module to be inhibited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If neither AM nor SM is specified, exercising of hardware in the AM and all the SMs is inhibited.

`b` = Routine exercise test type to be inhibited (default is to inhibit all three test types). Valid value(s):

- `DGN` = Inhibit diagnostic exercises.
- `ELS` = Inhibit electronic loop segregation (ELS) exercises.
- `FAB` = Inhibit fabric exercise tests of grids.

4. SYSTEM RESPONSE

`NG` = No good. Wrong test type.

`OK` = Good. Request is valid and accepted.

`RL` = Retry later. System is in min-mode.

Note: The results of this message can be verified by using the OP:REXINH input message.

`?I` = General syntax error or invalid processor ID.

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5. REFERENCES

Input Message(s):

```
ALW:REX
OP:REXINH
```

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INH:REX-CM-SM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Inhibits either one or all valid test types for routine exercise (REX) of the hardware in the communication module (CM) and in all switching modules (SMs) or in the CM or in a range of SMs.

2. FORMAT

```
INH:REX[{,CM|,SM=a[&&b]}][,c];
```

3. EXPLANATION OF MESSAGE

`a` = Number of the SM for which REX is to be inhibited or lower limit of a range of module numbers.

`b` = Upper limit of a range of SMs requested to be inhibited.

`c` = Routine exercise test type to be inhibited (default is to inhibit all three test types). Valid value(s):

- `DGN` = Inhibit diagnostic exercise.
- `ELS` = Inhibit electronic loop segregation tests. This is not a valid test type for the CM.
- `FAB` = Inhibit fabric exerciser tests of grids. This is not a valid test type for the CM.

Note: If neither CM nor SM is specified, the default is to inhibit all test types for the CM and all SMs.

4. SYSTEM RESPONSE

`NG` = No good. The request was not a valid entry.

`OK` = Good. Request is valid and accepted.

`RL` = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ALW:REX-CM-SM
OP:REXINH
```

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Output Message(s):

```
OP:REXINH
```

MCC Display Page(s):

1280, [REX STATUS (SM)]
1290, [REX STATUS (CM)]

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INH:REX-UNIT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the scheduling of a unit for routine exercise (REX) be inhibited in the communication module (CM) or in a switching module (SM). This applies only to diagnostic (DGN) tests.

2. FORMAT

```
INH:REX{,CM[,d[=c]]|,SM=a,b[=c]};
```

3. EXPLANATION OF MESSAGE

`a` = Number of the SM for which REX is to be inhibited.

`b` = The SM unit type to be inhibited. DGN tests are the only test types that may be inhibited on a unit basis. Valid value(s):

`AIU`	= Access Interface Unit.
`ASC`	= Alarm service circuit.
`BTSR`	= Bootstrapper circuit.
`DCLU`	= Digital carrier line unit.
`DCTU`	= Directly connected test unit.
`DLTU`	= Digital line and trunk unit.
`DNUS`	= Digital networking unit - synchronous optical network (SONET) (DNU-S).
`GDSF`	= Global digital services function.
`GDSU`	= Global digital service unit.
`IDCU`	= Integrated digital carrier unit.
`ISLU`	= Integrated services line unit.
`ISTF`	= Integrated services test facility.
`LDSU`	= Local digital service unit.
`LU`	= Line unit.
`MCTSI`	= Module controller/time slot interchanger.
`MSU`	= Metallic service unit.
`MTIB`	= Metallic test interface bus.
`PSU`	= Packet switching unit.
`RAF`	= Recorded announcement frame.
`RAU`	= Remote answering unit.
`RCLK`	= Remote clock.
`RLI`	= Remote line interface.
`SAS`	= Service announcement system.
`TU`	= Trunk unit.
`PLTU`	= Peripheral line and trunk unit.
`IWG`	= Inter-working gateway.

`c` = Unit number.

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`d` = The CM unit type to be inhibited. If none specified all units inhibited. Valid value(s):
- `MSGS` = Message switch.
- `ONTC` = Office network timing complex.

4. SYSTEM RESPONSE

`NG` = No good. The request was not a valid entry.

`OK` = Good. Request is valid and accepted.

`RL` = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ALW:REX-CM-SM
OP:REXINH
```

Output Message(s):

```
OP:REXINH
```

MCC Display Page(s):
1280 REX STATUS (SM)
1290 REX STATUS (CM)

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INH:REX

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that routine exercises (REX) be inhibited for one or more hardware communities by setting the REX temporary inhibit(s). A hardware community consists of a major device controller and its associated subdevices. If a hardware community has REX permanently inhibited, its REX temporary inhibit is not available.

Note: All routine exercises may be inhibited by using the INH:DMQ input message. The rex_inh flag will remain set until released with an ALW:DMQ or ALW:REX input message.

2. FORMAT

```
INH:REX[,a[=b]|ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Set the temporary REX inhibits for all major community controllers that are not permanently inhibited from REX.

`a` = Unit name of a major community controller. Applications may add additional major controllers which may be inhibited by this message. Valid value(s):

`CU`	= Control unit.
`DCI`	= Dual serial channel/computer interconnect.
`IOP`	= Input/output processor.

If not specified, then routine exercises will be inhibited for all AM controllers.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual. If not specified, then all controllers with the specified unit name are inhibited.

4. SYSTEM RESPONSE

`NG` = No good. Routine exercises are permanently inhibited for the unit specified or for all the units specified.

`OK` = Good. Routine exercises are temporarily inhibited for the unit specified or for at least one of the unit is specified.

`PF` = Printout follows. Followed by the INH:REX output message.

`RL` = Retry later. The database manager or a database record could not be opened. Try again at

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a later time. If this persists, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

?D = Data field error.

5. REFERENCES

Input Message(s):

ALW:DMQ
ALW:REX
INH:DMQ
OP:DMQ
OP:REXINH

Output Message(s):

INH:REX
OP:DMQ
OP:REXINH

Input Appendix(es):

APP:MEM-NUM-UNIT

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INH:RMV

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the link removal inhibit flag be administered and displayed.

2. FORMAT

```
INH:RMV:{ON|OFF|STATUS};
```

3. EXPLANATION OF MESSAGE

`OFF` = Turn the inhibit off, permitting link removal for diagnostics.

`ON` = Turn the inhibit on, prohibiting link removal for diagnostics after link failure.

`STATUS` = Display the current status of inhibit flag.

4. SYSTEM RESPONSE

Refer to the System Responses table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

`INH:RMV`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)

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INH:RPC

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

The purpose of this input message is to inhibit routine port conditioning. Port conditioning is the process of determining the status of a port, and depending on the port type, setting the hardware and scanning registers to reflect that status.

2. FORMAT

```
INH:RPC[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

a	= SM number or the lower limit of a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Upper limit of a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Note:	If no SM number or range is specified, all equipped and operational SMs will be inhibited.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted and is followed by the INH RPC output message.
NG	= No good. The input message was not recognized or acceptable.

5. REFERENCES

Input Message(s):

```
ALW:RPC
```

Input Appendix(es):

```
APP:RANGES
```

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INH:RT-FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that protection (PROT) line switch requests to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) circuit be inhibited or requests that a DS1 currently on protection be taken off of protection.

Requests that a DS1, that is being protected, be inhibited from being released or coming off of protection. This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU).

WARNING: If a DS1 is already on protection when the inhibit PROT input message is used, any calls on that DS1 will be dropped.

If a DS1 is on protection and RELEASE is inhibited, then a higher priority DS1 cannot go on protection until the RELEASE is allowed on the original DS1.

2. FORMAT

```
INH:RT,FAC=a-b,{PROT|RELEASE};
```

3. EXPLANATION OF MESSAGE

`PROT` = Inhibit switching from the specified DS1 FAC to the protection line (for use with the DCLU or the IDCU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`RELEASE` = Inhibit the release of a DS1 from protection (for use with the IDCU only).

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DS1 FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the INH:RT-FAC output message.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ALW:RT-FAC`

Output Message(s):

`INH:RT-FAC`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)

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INH:RT-PROV-REPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be inhibited. This message is applicable for RTs terminating on an Integrated Digital Carrier Unit (IDCU) or Digital Network Unit SONET (DNU-S).

2. FORMAT

```
INH:RT,PROV,REPT,{SM=a|SID=b|{IDCURT|DNUSRT}=a-c-d};
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Site identification (SID) number of the RT.

`c` = Unit number.

`d` = Local RT (LRT) number.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted and the requested action was completed.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable resources.

5. REFERENCES

Input Message(s):

```
ALW:RT-REPT
OP:RT-REPT
```

Output Message(s):

```
OP:RT-REPT
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

188xyy (IDCU/DNU-S REMOTE TERMINAL)

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INH:RT-REPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be inhibited. This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
INH:RT,REPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted and the requested action was completed.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable resources.

5. REFERENCES

Input Message(s):

```
ALW:RT-REPT
OP:RT-REPT
```

Output Message(s):

```
OP:RT-REPT
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)

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INH:RTMTBOVR

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that metallic setup failure override be inhibited when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT). If the MTB is really open and override is inhibited, metallic setup will fail. The system default is to allow metallic setup failure override.

This message will set an override flag in a switching module (SM) to the inhibit state. The flag can be set in one SM or in all SMs. If individual SMs are set differently, be aware that if the modular metallic service unit (MMSU) and RT are in different SMs a remote read of the flag stored in the RT SM is done from the MMSU SM. If the remote read fails, the default of the override flag will be that stored in the MMSU SM.

2. FORMAT

```
INH:RTMTBOVR[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number, or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. The request has been accepted and is followed by the INH:RTMTBOVR output message.

5. REFERENCES

Input Message(s):

```
ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBPRT
```

Output Message(s):

```
ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBOVR
```

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```
INH:RTMTBPRT
```

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INH:RTMTBPRT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of the REPTRTMTBSID message be inhibited when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).

The system default is to allow the printing of this message. By inhibiting the printing of this message, the ability to see the cause of metallic setup failure will be lost. If, however, metallic setup override is allowed with the message ALW:RTMTBOVR, then it might be desirable not to have the message print. Consider carefully what configuration is desired in the office.

This message will set a print flag in a switching module (SM) or in all SMs. If individual SMs are set differently, be aware that if the modular metallic service unit (MMSU) and RT are in different SMs a remote read of the flag stored in the RT SM is done from the MMSU SM. If the remote read fails, the default of the print flag will be that stored in the MMSU SM.

2. FORMAT

```
INH:RTMTBPRT[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number, or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. The request has been accepted and is followed by the INH:RTMTBPRT output message.

5. REFERENCES

Input Message(s):

```
ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBOVR
```

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Output Message(s):

```
ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBOVR
INH:RTMTBPRT
```

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INH:RTRACK

Software Release: 5E15 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Requests that entry into the ring tracker mode be inhibited.

2. FORMAT

```
INH:RTRACK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. The request was not accepted; reason will follow.

`PF` = Printout follows. Followed by an INH RTRACK output message. If accepted, any request to enter ring tracker mode will be rejected. A REPT:RING-CFR output message is output every 15 minutes until the ring tracker mode is allowed using the ALW:RTRACK input message.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
ALW:RTRACK
EXC:RTRACK
OP:RTRACK
STOP:RTRACK
```

Output Message(s):

```
ALW:RTRACK
EXC:RTRACK
INH:RTRACK
OP:RTRACK
REPT:RING-CFR
STOP:RTRACK
```

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INH:RUTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an inhibit of all the break points in the specified common network interface (CNI) node. The user is informed about the result of this operation.

The specified break point(s) remain inhibited (disabled) until enabled using the ALW:RUTIL or ALW:RUTILFLAG input messages or removed by the CLR:RUTIL or CLR:RUTILFLAG input messages.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

```
INH:RUTIL=a-b,AP;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:RUTIL output message.

5. REFERENCES

Input Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTILFLAG
```

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```
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL
```

Output Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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INH:RUTILFLAG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an inhibit of the specified break point in the specified common network interface (CNI) ring node. The user is informed about the result of this operation.

The specified break point(s) remain inhibited (disabled) until enabled using the ALW:RUTIL or ALW:RUTILFLAG input messages or removed by the CLR:RUTIL or CLR:RUTILFLAG input messages.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

```
INH:RUTILFLAG=a-b,AP:BP=c;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Breakpoint member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Specific breakpoint to be inhibited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:RUTILFLAG output message.

5. REFERENCES

Input Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
```

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```
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL
```

Output Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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INH:S7ACK

Software Release: 5E15 and later
Command Group: TRK
Application: 5
Type: Input

1. PURPOSE

Inhibits the printing of the ISUP/BICC abnormal acknowledgement output message.

The abnormal acknowledgement output message was allowed following a system initialization.

2. FORMAT

```
INH:S7ACK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:S7ACK output message.

`OK` = Request accepted. May also include:
`- ABNORMAL ACK REPT ALLREADY INHIBITED`

5. REFERENCES

Input Message(s):

```
ALW:S7ACK
OP:S7ACK
```

Output Message(s):

```
ALW:S7ACK
OP:S7ACK
REPT:ABNORMAL-AT
```

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INH:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Stops observation of SS7 messages, clears any previous observation scope and observation types, and inhibits any further observations.

2. FORMAT

```
INH:S7RPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `FEATURE NOT AVAILABLE` = The input message cannot be used in this office. The office should be upgraded.
- `S7RPT NOT ALLOWED` = The ALW:S7RPT input message must be issued for INH:S7RPT input message to have any affect.
- `HARDWARE NOT OPERATIONAL` = CCS is not available in the office.

`PF` = Printout follows. Followed by the INH:S7RPT output message.

5. REFERENCES

Input Message(s):

```
ALW:S7RPT
EXC:S7RPT
STP:S7RPT
OP:S7RPT
```

Output Message(s):

```
INH:S7RPT
REPT:S7RPT
```

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INH:S7XCHK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Inhibit demand or automatic periodic PCI7GR cross check from running. Current running PCI7GR cross check will not be affected and will be able to finish.

2. FORMAT

```
INH:S7XCHK[,TYPE=a];
```

3. EXPLANATION OF MESSAGE

`a` = Demand PCI7GR cross check. Valid value(s):

`PCI7GR`

4. SYSTEM RESPONSE

`OK` = The message has been accepted. Valid value(s):

- `PCI7GR CROSS CHECK INHIBITED` = PCI7GR cross check has been inhibited.
- `PCI7GR CROSS CHECK ALREADY INHIBITED` = PCI7GR cross check was already inhibited.

5. REFERENCES

Input Message(s):

```
ALW:S7XCHK
EXC:S7XCHK
STP:S7XCHK
OP:S7XCHK
```

Output Message(s):

```
EXC:S7XCHK
```

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INH:SCORPT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of information related to switch cutoff calls be inhibited.

2. FORMAT

```
INH:SCORPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request has been received. No subsequent occurrences of switch cutoff calls will print the information report (REPT:SWITCH-CC).

5. REFERENCES

Input Message(s):

```
ALW:SCORPT
```

Output Message(s):

```
REPT:SWITCH-CC
```

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INH:SCSD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that reporting of transitions of a scanner and signal distributor (SCSD) scan point be inhibited. Scan points can be identified by physical location (as in Format 1) or by logical address (as in Format 2).

2. FORMAT

```
[1]    INH:SCSD:UNIT=a,PT=b[-b-b-b-b-b-b-b];

[2]    INH:SCSD:GRPN="c",DUPID=d,PT=e[-e-e-e-e-e];
```

3. EXPLANATION OF MESSAGE

`a` = Member number of the SCSD unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Physical scan point number on an SCSD. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Name of the logical SCSD group. Valid value(s):

```
FANACU0
FANACU1
PDF0
PRSWCU0
PRSWCU1
PRSWIOP0
PRSWIOP1
PRSWDFC0
PRSWDFC1
PRSWMHD0
PRSWMHD1
PTSWMCR
PTSWROP
```

`d` = Duplex point ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Number of a point within a logical group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. SCSD administrator process is not active; no communication with SCSD points is

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possible.

PF = Printout follows. Followed by the INH:SCSD output message.

RL = Retry later.

5. REFERENCES

Input Message(s):

```
ALW:SCSD
OP:SCSD
RMV:SCSDC
RST:SCSDC
```

Output Message(s):

```
ALW:SCSD
INH:SCSD
OP:SCSD
ORD:SCSD
REPT:FAN
REPT:SCSD
REPT:SCSDC
RMV:SCSDC
RST:SCSDC
```

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INH:SFTCHK-SM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all software error checks be inhibited in one or more switching modules (SMs), or a specified communication module processor (CMP). This inhibit prevents automatic recovery escalation.

This inhibit will remain in effect through all processor initializations (with the exception of emergency action interface (EAI) input message 54) until manually allowed.

WARNING: Inhibiting software checks can prevent the system from recovering automatically from software faults in this unit.

2. FORMAT

```
INH:SFTCHK,{CMP=a|SM=b[&&c][,LSM][,HSM][,RSM][,ORM][,TRM]};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = CMP number.

`b` = SM number, or lower limit of a range of SM numbers.

`c` = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because an illegal SM number or range was specified. The message was not accepted because an illegal CMP number was specified.

`OK` = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

```
ALW:SFTCHK
OP:SYSSTAT
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1800 (SM INH & RCVRY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)

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INH:SFTCHK

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that the use of system initialization be inhibited when handling administrative module (AM) software errors.

WARNING: Inhibiting software checks can prevent the system from recovering automatically from software faults, data corruption, or overload conditions.

2. FORMAT

```
INH:SFTCHK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:SFTCHK output message.

5. REFERENCES

Input Message(s):

```
ALW:SFTCHK
INH:ERRCHK
OP:ERRCHK
```

Output Message(s):

```
ALW:SFTCHK
INH:SFTCHK
OP:ERRCHK
```

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INH:SLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the status of the alarm inhibit flag of a signaling link (SLK) be set, reset, or listed. The alarm inhibit flag is conditioned in accordance with the input request for the specified SLK or the current status of the flag is reported.

2. FORMAT

```
INH:SLK=a-b:c;
```

3. EXPLANATION OF MESSAGE

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Request type. Valid value(s):

- `OFF` = The alarm inhibit is turned off. This allows all messages associated with a signaling link to be print.
- `ON` = The alarm inhibit is turned on. This will allow only non-alarm messages to print for a signaling link.
- `STATUS` = Requests the status of the alarm inhibit flag for the corresponding signaling link.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Output Message(s):

`INH:SLK`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI RING STATUS)

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1521 (SIGNALING LINK SUMMARY)
1522 (SIGNALING LINK)

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INH:SRM

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of software resource measurement information be inhibited for a switching module (SM).

2. FORMAT

```
INH:SRM,SM=a;
```

3. EXPLANATION OF MESSAGE

a = SM number.

4. SYSTEM RESPONSE

OK = The request has been accepted. Software resource measurement information will not be reported for the requested SM.

5. REFERENCES

Input Message(s):

```
ALW:SRM
```

Output Message(s):

```
OP:SRM
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-145-100 *Call Processing Description*

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INH:SSTR

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a single service selective trunk reservation (SSTR) control be inhibited for a specified trunk group.

2. FORMAT

```
INH:SSTR,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:SSTR output message.

`RL` = Retry later. Valid value(s):
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ALW:SSTR
OP:SSTR
```

Output Message(s):

```
INH:SSTR
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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INH:TCLRPT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Inhibits the reporting of information related to transient calls lost.

2. FORMAT

```
INH:TCLRPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK	= Good. The request has been received. All subsequent occurrences of transient calls lost will not print the information report (REPT:TRANSIENT-CL).

5. REFERENCES

Input Message(s):

```
ALW:TCLRPT
```

Output Message(s):

```
REPT:TRANSIENT-CL
```

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INH:TFTP

Software Release: 5E21(1) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To request to inhibit a trivial file transfer protocol (TFTP) server running on a protocol handler (PH). TFTP is a standard protocol defined by RFC 1350. It is used for transferring data over user datagram protocol (UDP) over internet protocol (IP).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. It should never be used without expert technical assistance.

2. FORMAT

```
INH:TFTP,SERVERCHNG=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number for server PH. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel group number for server PH. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted. May also include:
- `SERVER NOT RUNNING` = No TFTP server is running using a CHNG on this SM.
- `SERVER PH INCORRECT` = No TFTP server is running on the specified channel group.

`PF` = Printout follows. The message was accepted and a printout will follow.

5. REFERENCES

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Input Message(s):

```
ALW:TFTP
OP:TFTP
```

Output Message(s):

```
ALW:TFTP
INH:TFTP
OP:TFTP
REPT:TFTP
```

Input Appendix(es):

```
APP:RANGES
```

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INH:TOD

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Inhibits the display of time of day (TOD) data base update failure message.

2. FORMAT

```
INH:TOD,FAIL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request has been accepted.

5. REFERENCES

Input Message(s):

```
ALW:TOD
```

Output Message(s):

```
REPT:TOD-FAIL
```

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INH:TR

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk reservation (TR) control be inhibited on a per trunk group basis.

2. FORMAT

```
INH:TR,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number that has a TR control assigned.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:TR output message.

`RL` = Retry later. Valid value(s):
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ALW:TR
OP:TR
```

Output Message(s):

```
INH:TR
```

Other Manual(s):
235-190-101 *Business and Residence Modular Features*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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INH:TRACE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the tracing mechanism be inhibited. The INH:TRACE and the ALW:TRACE input messages form the basic on/off mechanism for TRACE. When the INH:TRACE request is issued, TRACE will do nothing (except consume a certain amount of fixed overhead) until the ALW:TRACE request is issued.

A copy of the TRACE parameter settings is retained so that the user can re-activate TRACE without having to enter the parameters again. The parameter settings may be changed at any time through the SET:TRACE input message (whether tracing is allowed or inhibited).

Note: The interprocessor message switch (IMS) driver process must be running before trace updates can be sent to the node processors (NP).

2. FORMAT

```
INH:TRACE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:TRACE output message.

5. REFERENCES

Input Message(s):

```
ALW:TRACE
OP:TRACE
SET:TRACE
```

Output Message(s):

```
ALW:TRACE
INH:TRACE
OP:TRACE
REPT:TRACE
SET:TRACE
```

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INH:TRAP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an active trap be temporarily suspended. Traps will be inhibited at the nodes for the specified identification numbers. The appropriate diagnostic/error messages will be printed. The amount of time a trap is suspended will not be included in the duration of the trap.

2. FORMAT

```
INH:TRAP={a[-a[-a[-a]]]|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Suspend all active traps.

`a` = Trap identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INH:TRAP output message.

5. REFERENCES

Input Message(s):

```
ALW:TRAP
OP:TRAP
SET:TRAP
STOP:TRAP
```

Output Message(s):

```
INH:TRAP
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)

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INH:TRFC15

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the 15-minute traffic report be inhibited from being output to the receive-only printer (ROP).

2. FORMAT

```
INH:TRFC15;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The requested report has been inhibited.

5. REFERENCES

Input Message(s):

```
ALW:TRFC15
OP:MEASTAT
OP:TRFC15
```

Output Message(s):

```
OP:MEASTAT-PRNT
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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INH:TRFC30-A

Software Release: 5E15 - 5E17(1)
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the inhibition of the collection or outputting of the specified section of the 30-minute traffic report.

WARNING: If no section is specified, all sections will be inhibited.

2. FORMAT

```
INH:TRFC30,{CLCT|TRFCH|ROP}[:a|:ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Inhibit all sections, regardless of whether they need IDs (default).

`CLCT` = Inhibit collection of specified section(s). Inhibiting collection of sections will automatically cause those sections to be inhibited for printing.

`ROP` = Inhibit output of specified section(s) to the receive-only printer.

`TRFCH` = Inhibit output of specified section(s) to the traffic channel.

`a` = Section that is to be inhibited. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):

- `CONFIGURATION NOT SUPPORTED.` The section requested represents a configuration not present in this office.
- `FEATURE NOT AVAILABLE` The requested action failed; the feature required to process the request is not present in the switch.
- `INCOMPLETE UNIT ID` The identifiers entered incompletely specified a unit.
- `NOT ALLOWED` The inhibit request was for some unit or count not currently allowed but the section is still allowed.
- `SECTION NOT INHIBITABLE FOR COLLECTION` The section cannot be inhibited for data collection.
- `SECTION NOT INHIBITABLE FOR PRINT` The section cannot be inhibited for ROP/traffic channel.
- `UNIT(S) NOT EXPLICITLY ALLOWED` The previous input was "ALW:TRFC30,ROP,b", where "b" was the section name or ALL. Therefore, specific records cannot be

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inhibited. The section is allowed.

`OK` = Good. The section(s) were inhibited; however, section(s) that cannot be inhibited for collection remain allowed when an INH:TRFC30,CLCT,ALL is requested. If the request is to inhibit an individual section for collection and the section or identifiers are already inhibited, OK will be output. To determine which sections or identifiers remain allowed for collection use the, OP:MEASTAT,CLCT input message.

`PF` = Printout follows. Followed by the INH:TRFC30 output message detailing which groups are inhibited or are invalid prints.

5. REFERENCES

Input Message(s):

```
ALW:TRFC30
OP:MEASTAT
OP:OFR-FORM
OP:ST-TRFC30
OP:TRFC30
```

Output Message(s):

```
ALW:ST-TRFC30
ALW:TRFC30
INH:TRFC30
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30
OP:TRFC30-ND
```

Input Appendix(es):

```
APP:TRFC-SECTION
```

Output Appendix(es):

```
APP:TRFC-SECTION
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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INH:TRFC30-B

Software Release: 5E18(1) and later
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the inhibition of the collection or outputting of the specified section of the 30-minute traffic report.

WARNING: If no section is specified, all sections will be inhibited.

2. FORMAT

```
INH:TRFC30,{CLCT|TRFCH|ROP}[:a|:ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Inhibit all sections, regardless of whether they need IDs (default).

`CLCT` = Inhibit collection of specified section(s). Inhibiting collection of sections will automatically cause those sections to be inhibited for printing.

`TRFCH` = Inhibit output of specified section(s) to the traffic channel.

`a` = Section that is to be inhibited. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `ALW/INH:TRFC30 NOT ALLOWED AT THIS TIME` = Report is being generated and therefore manual requests are locked out to avoid data inconsistency.
- `CONFIGURATION NOT SUPPORTED.` = The section requested represents a configuration not present in this office.
- `FEATURE NOT AVAILABLE` = The requested action failed; the feature required to process the request is not present in the switch.
- `INCOMPLETE UNIT ID` = The identifiers entered incompletely specified a unit.
- `NOT ALLOWED` = The inhibit request was for some unit or count not currently allowed but the section is still allowed.
- `SECTION NOT INHIBITABLE FOR COLLECTION` = The section cannot be inhibited for data collection.
- `SECTION NOT INHIBITABLE FOR PRINT` = The section cannot be inhibited for ROP/traffic channel.
- `UNIT(S) NOT EXPLICITLY ALLOWED` = The previous input was "ALW:TRFC30,ROP,b", where "b" was the section name or ALL. Therefore, specific records cannot be inhibited. The section is allowed.

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`OK` = Good. The section(s) were inhibited; however, section(s) that cannot be inhibited for collection remain allowed when an INH:TRFC30,CLCT,ALL is requested. If the request is to inhibit an individual section for collection and the section or identifiers are already inhibited, OK will be output. To determine which sections or identifiers remain allowed for collection use the, OP:MEASTAT,CLCT input message.

`PF` = Printout follows. Followed by the INH:TRFC30 output message detailing which groups are inhibited or are invalid prints.

5. REFERENCES

Input Message(s):

```
ALW:TRFC30
OP:MEASTAT
OP:OFR-FORM
OP:ST-TRFC30
OP:TRFC30
```

Output Message(s):

```
ALW:ST-TRFC30
ALW:TRFC30
INH:TRFC30
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30
OP:TRFC30-ND
```

Input Appendix(es):

```
APP:TRFC-SECTION
```

Output Appendix(es):

```
APP:TRFC-SECTION
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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INH:TSESS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request to suspends subscriber line and instrument measurement (SLIM) routine mode test session.

2. FORMAT

```
INH:TSESS,SESS=a;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the test session to be suspended.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `TEST SESSION a ALREADY SUSPENDED OR WAITING`
- `TEST SESSION a NOT ACTIVE`
- `TEST SESSION a NOT DEFINED`
- `TEST SESSION a SUSPEND IN PROGRESS`

`IP` = In progress.

5. REFERENCES

MCC Display Page(s):

162 (TESTSESSION STATUS)

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INH:UMEM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Causes the generic access package (GRASP) transfer trace to stop monitoring the flow of execution. The transfer trace goes into the STOPPED state with successful completion of the message. This message can be called as an immediate action, or it can be used in the action list of a WHEN.

2. FORMAT

```
INH:UMEM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP	= In progress. The message has been added to the WHEN action list.
NG	= No good. No trace is defined.
PF	= Printout follows. Followed by the INH:UMEM output message.
RL	= Retry later or wait for the previous OP:UMEM or OP:UMEM;MCH to complete. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
ALW:UMEM
INIT:UMEM
OP:UTIL
WHEN:PID
WHEN:UID
```

Output Message(s):

```
INH:UMEM
OP:UTIL
```

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INH:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the communications module processor (CMP), or all such active clauses, be inhibited.

This message may be used together with any of the other CMP generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
INH:UT:CMP=a,{MATE|PRIM},{UTIL|UTILFLAG=b};
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby CMP.

`PRIM` = Execute this input message on the active CMP.

`UTIL` = Execute this input message on all of the WHEN clauses in the specified CMP.

`a` = CMP number.

`b` = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
```

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```
DUMP:UT-CMP
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
INH:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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INH:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the packet interface (PI) unit, or all such active clauses, be inhibited.

Note: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
INH:UT:MCTSI=a-b,PI,{UTIL|UTILFLAG=c}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified PI.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Side of the module controller/time-slot interchange (MCTSI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
```

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```
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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INH:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited.

Note: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
INH:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=e};
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified PSUPH.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number (always 0).

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
INH:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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INH:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited.

NOTE: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

This message may be used together with any of the other PSUPH generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
INH:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=e}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified PSUPH.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
INH:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-600-400 *Audits*

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INH:UT-SM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the switching module (SM), or all such active clauses, be inhibited.

This message may be used together with any of the other SM generic utility input messages. Refer to the References section of this message. If this message is used together with any of the other generic utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
INH:UT:SM=a[&&b],{UTIL|UTILFLAG=c};
```

3. EXPLANATION OF MESSAGE

`UTIL` = Execute this input message on all of the WHEN clauses in the specified SM(s).

`a` = SM number or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
```

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```
IF:UT-SM
IF:UT-SM-ENDIF
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
INH:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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INH:UTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Disables (but leaves defined) all administrative module (AM) generic access package (GRASP) breakpoints. Inhibits the associated actions normally executed when the breakpoint conditions occur.

2. FORMAT

```
INH:UTIL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress. The request has been added to the WHEN action list.

`NG` = No good. No GRASP breakpoints are currently defined.

`PF` = Printout follows. Followed by the INH:UTIL output message.

`RL` = Retry later. The system is in an overload condition or completing the previous OP:UMEM request.

5. REFERENCES

Input Message(s):

```
ALW:UTIL
INH:UTILFLAG
OP:UMEM
OP:UTIL
WHEN:PID
WHEN:UID
```

Output Message(s):

```
INH:UTIL
OP:UTIL
```

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INH:UTILFLAG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Disables (but leaves defined) a specific central processor (CP) generic access package (GRASP) breakpoint. Inhibits the associated actions that normally are executed when the breakpoint condition occurs.

Within a WHEN action list, the identifier ME can be used to refer to the breakpoint being defined, since the breakpoint number has not yet been assigned.

2. FORMAT

```
INH:UTILFLAG={a|ME};
```

3. EXPLANATION OF MESSAGE

`ME` = Used within a WHEN action list to refer to the breakpoint being defined.

`a` = Numeric identifier (one or more decimal digits) of the breakpoint to be disabled.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`NG` = No good. Identifier does not correspond to a currently defined breakpoint.

`PF` = Printout follows. Followed by INH:UTILFLAG output message.

`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
ALW:UTILFLAG
INH:UTIL
OP:UMEM
OP:UTIL
WHEN:PID
WHEN:UID
```

Output Message(s):

```
INH:UTILFLAG
```

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```
OP:UTIL
WHEN:PID
WHEN:UID
```

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35. INIT

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INIT:AM-FPI

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an administrative module (AM) initialization of an application process at the specified level. The supported initialization level is a full process initialization (FPI) of a named *UNIX*® RTR Operating System application process (DAP).

WARNING: This input message will purge the requested process. Any activity currently in progress will be killed. This may result in other asserts or audits as the system cleans up.

2. FORMAT

```
INIT:AM,a,FPI;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Identity of the selected DAP. Valid value(s):

`AMDW1`	= Automatic message accounting (AMA) disk writer kernel process 1.
`AMDW2`	= AMA disk writer kernel process 2.
`APDL`	= Application processor data link kernel process.
`ASM`	= Administrative service module process.
`OKP`	= Operational kernel process.
`PUCR`	= Pump control supervisor process.
`RINGMON`	= Common channel signaling ring monitor process.
`SMDIMP`	= Switch maintenance (SM) deferred maintenance administration input message processor supervisor process.
`SMKP`	= Switch maintenance kernel process (OSDS-SM).
`SMPSM`	SM power switch monitor process.

4. SYSTEM RESPONSE

`IP` = In progress. The message was accepted and the request is in progress.

`NG` = No good. The message was not accepted because an illegal initialization level or DAP was specified.

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5. REFERENCES

Input Message(s):

```
STP:EXC-UPD
```

Output Message(s):

```
INIT:AM-LVL
```

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INIT:AM-SPP

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an administrative module (AM) single process purge (SPP) initialization of a named application process running under either operational kernel process (OKP) or switch maintenance kernel process (SMKP). The named process ID (PID) may be either a system process or terminal process. Refer to the APP:PID-AM-OKP appendix for a list of the system process PIDs for OKP. Refer to the APP:PID-AM-SMKP appendix for a list of the system process PIDs for SMKP.

WARNING: This message will purge the requested process. Any activity currently in progress will be killed. This may result in other asserts or audits as the system cleans up.

2. FORMAT

```
INIT:AM,a,SPP,PID=b[-c];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Identity of the selected *UNIX*® RTR application process (DAP). Valid value(s):
- `OKP` = Operational kernel process.
- `SMKP` = Switch maintenance kernel process.

`b` = Number of the process to be purged. The process may be either a system process or a terminal process. If the PID refers to a terminal process, a uniqueness number must be included.

`c` = Uniqueness number of the specified terminal process PID (used only for a terminal process).

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted. May also include:
- `INVALID PID` = An illegal value for PID was specified.
- `PID NOT ACTIVE` = The specified PID is no longer associated with an active process.

`PF` = Printout follows. The initialization request was accepted and is followed by the INIT:AM-LVL output messages.

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5. REFERENCES

Output Message(s):

```
INIT:AM-LVL
```

Input Appendix(es):

```
APP:PID-AM-OKP
APP:PID-AM-SMKP
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

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INIT:CLNORM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the communication link normalization (CLNORM) process be initiated. Initialize the CLNK preferences for CLNK Normalization to the default preferences of one CLNK active on the MSGS0-ONTC0 hardware and the other active CLNK on the MSGS1-ONTC1 hardware.

2. FORMAT

```
INIT:CLNORM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. The INIT:CLNORM output message follows.

5. REFERENCES

Input Message(s):

```
ALW:CLNORM
INH:CLNORM
```

Output Message(s):

```
ALW:CLNORM
INH:CLNORM
```

Other Manual(s):
235-106-10x *5ESS® Switch Software Release Retrofit Procedures*

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INIT:CM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

This message is used to reinitialize the CM without affecting the AM. By selecting optional input parameters, switch maintenance technicians can specify the level of initialization and which side of the MSCU/ONTC complex to force active.

WARNING: This input message will result in call processing downtime. All service in this unit will be lost for the duration of the initialization.

2. FORMAT

```
[1]    INIT:CM,FI[,MSCU=0|1][,ONTC=0|1]

[2]    INIT:CM,SI
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

4. SYSTEM RESPONSE

`IP` = In progress. The message was accepted and the request is in progress.

`NG` = No good. The message was not accepted because an illegal initialization level or the feature was not purchased.

5. REFERENCES

Input Message(s):

None.

Output Message(s):

None.

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INIT:CMP-SPP

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a single process purge (SPP) of a named process in a selected communication module processor (CMP). The named process ID (PID) may be either a system process or terminal process. Refer to the APP:PID-CMP appendix in the Appendixes section of the Input Messages manual for a list of the CMP system process PIDs.

WARNING: This message will purge the requested process. Any activity currently in progress will be killed. This may result in other asserts or audits as the system cleans up.

2. FORMAT

```
INIT:CMP=a,b,SPP,PID=c[-d];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = CMP number.

`b` = Processor affected. Valid value(s):

`MATE`	= Mate CMP.
`PRIM`	= Primary CMP.

`c` = PID to be purged. The process may be either a system process or a terminal process. If the PID refers to a terminal process, a uniqueness number must be included.

`d` = Uniqueness number of the specified terminal process PID (used only for a terminal process).

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because:

- An illegal CMP number was specified.
- An illegal initialization level or PID was specified.

`PF` = Printout follows. Followed by the INIT:CMP-LVL output message.

5. REFERENCES

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Output Message(s):

```
INIT:CMP-LVL
```

Input Appendix(es):

```
APP:PID-CMP
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*
235-600-400 *Audits*

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INIT:CMP

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the selected communication module processors (CMPs) be initialized at the specified level. The initialization level may be a selective initialization (SI), full initialization (FI), or purging initialization (PGI). In addition, a full pump of the CMP may be specified with the FI.

If an initialization is requested on a CMP that is isolated from the administrative module (AM), the initialization request will be queued until communication is restored. Initialization requests for the mate CMP may be queued behind primary CMP or switching module (SM) initialization requests, in which case, the state of the CMP will change to "INIT PEND", indicating there is an initialization pending. Pending initialization requests may be canceled by selecting the NOINIT level as shown below.

WARNING: All service in this unit will be lost for the duration of the initialization.

2. FORMAT

```
INIT:CMP=a,b,c[,PUMP];
```

3. EXPLANATION OF MESSAGE

`PUMP` = Perform a full CMP pump at the requested level (FI).

`a` = CMP number.

`b` = Processor to be initialized. Valid value(s):

- `MATE` = Mate CMP.
- `PRIM` = Primary CMP.

`c` = Initialization level. Valid value(s):

- `FI` = Full initialization (clear all stable calls).
- `NOINIT` = No initialization (cancel a pending SI, FI, PGI request).
- `PGI` = Purging initialization.
- `SI` = Selective initialization (clear all transient calls).

4. SYSTEM RESPONSE

`IP` = In progress. The message was accepted and the request is in progress. Valid value(s):

- `PREVIOUS INIT CANCELLED` = As part of accepting this request a previous initialization request was cancelled.

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`NG` = No good. The message was not accepted for one of the following reasons:
- `CMP IS OOS, TRY RST:CMP` = CMP must be restored rather than initialized.
- `INIT INPROGRESS/COMPLETED` = Initialization could not be cancelled because it had already started or completed (NOINIT only).
- `INTERNAL ERROR` = Request count not be handled due to system software problems.
- `INVALID CMP PAIR/MEMBER` = Illegal CMP pair/member was specified.
- `INVALID INIT/PUMP TYPE` = Illegal initialization level or pump option was specified.

`OK` = Good. The message was accepted and the action completed (NOINIT only).

5. REFERENCES

Output Message(s):

`INIT:CMP-LVL`

Other Manual(s):
235-105-250 *System Recovery*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1850/1851 (CMP INH & RCVRY CNTL)

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INIT:CNI

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a common network interface (CNI) initialization at a specified level. The selected level may be level 0 (audit level) or 1, 2, 3, or 4, which result in an initialization of the CNI system.

WARNING: This message could halt all common channel signaling (CCS) call processing. All service based on the CNI could be lost for the duration of the initialization.

2. FORMAT

```
INIT:CNI,{LVL0|LVL1|LVL2|LVL3|LVL4|DLNTBL};
```

3. EXPLANATION OF MESSAGE

`DLNTBL` = Direct link node table. Initialize direct memory access (DMA) tables required during DLN growth. This option is only used during CNI growth.

`LVL0` = Perform an audit-level CNI and interprocess message switch (IMS) initialization. The CNI level 0 initialization requests a series of CNI-related data audits to be run by an audit manager residing in the system integrity monitor (SIM). If an excessive amount of non-correctable critical errors occur, the level 0 initialization is advanced to a level 1 initialization. Included with the CNI audits, an IMS level 0 audit is performed.

`LVL1` = Perform a recovery-level CNI initialization. The CNI level 1 initialization resets and restarts all CNI administrative module (AM) resident software. No processes are recreated or reloaded from disk and the CNI ring is not re-pumped. The CNI system is briefly unavailable to carry CCS traffic.

`LVL2` = Perform a boot-level CNI initialization. All AM resident processes parented by CNI and IMS will be killed and recreated. Data that was previously loaded into the CNI protected application segment (PAS) area (during a previous initialization) will not be reloaded during the level 2 initialization and the remote access subsystem (REMACS) will not pump the nodes with CNI routing data.

`LVL3` = In addition to performing a LVL2, data in shared libraries and the CNI PAS area reload and reinitialize from disk. The CNI REMACS downloads routing data to all nodes on the CNI ring.

`LVL4` = In addition to performing a LVL3, download all CNI-related text and data to the CNI ring nodes.

4. SYSTEM RESPONSE

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NG = No good. Request was unsuccessful because:
- The CNI system is already initializing. Try higher level.
- The CNI system is in an automatically non-recoverable state. Perform a LVL3 or LVL4.
- The initialization of the CNI system failed.
- An internal error occurred.
- The office is not equipped with CNI.

OK = Good. Request has been accepted.

PF = Printout follows. Initialization request has been accepted and is followed by the INIT:CNI-LVL output message.

RL = Retry later because:
- The CNI system is not in a stable state.
- The system is unable to service the request. (This will happen if the office is not equipped with the CNI ring, and LVL0 or LVL1 level is run.)

5. REFERENCES

Input Message(s):

```
STP:EXC-ANY
```

Output Message(s):

```
INIT:CNI-LVL
```

Other Manual(s):
235-190-120 *Common Channel Signaling and Associated Signaling Service Features*

MCC Display Page(s):

118 (CNI FRAME AND CCS STATUS)

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INIT:DLN-SPP-PID

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a single process purge (SPP) of a named process in a selected direct link node (DLN). The named process identification number (PID) may be either a system process or terminal process.

WARNING: This message will purge the requested process. Any activity currently in progress will be killed. This may result in additional asserts as the system cleans up.

2. FORMAT

```
INIT:DLN=a-b,SPP,PID=c[-d];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = DLN ring node group number.

`b` = DLN ring node member number.

`c` = Process number to be purged. The process may be either a system process or a terminal process. If the PID refers to a terminal process, a uniqueness number must be included.

`d` = Uniqueness number of the specified terminal process PID (used only for a terminal process).

Exhibit A -- SYSTEM PIDs FOR THE DLN

PID	Process Name	Description
0	CCTR	CCS message transport process
1	CCDD	CCS direct signaling process
2	CCDB	Data base management process
3	CCSI	System integrity background process
4	MSDL	Measurement collection controller process
5	DCNG	Congestion control process
6	RMCS	CNI remote access process
7	RDBG	CNI ring debugger monitor process

4. SYSTEM RESPONSE

`IP` = In progress. The message was accepted and the request is in progress.

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`NA` = No acknowledgement. The DLN did not respond to the initialization request.

`NG` = No good. The message was not recognized, or was not acceptable. Valid value(s):
- `DLN NOT EQUIPPED` = The request was denied. DLN is not equipped in this office.
- `INVALID PROCESS ID` = The request was denied. The specified PID is invalid or the process does not exist.
- `NODE IS NOT A DLN` = The specified ring node is not a DLN.

`RL` = Retry later. Valid value(s):
- `CNI NOT AVAILABLE` = The common network interface (CNI) was out of service or in initialization.
- `DLN INIT IN PROGRESS` = A DLN initialization was already in progress.

5. REFERENCES

Output Message(s):

`REPT:DLN`

Other Manual(s):
235-190-120 *Common Channel Signaling and Associated Signaling Service Features*

MCC Display Page(s):

118 (CNI FRAME AND CCS STATUS)

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INIT:DLN

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an initialization of the selected direct link node (DLN) at the specified level. The initialization level may be a start-scan operation, office dependent data (ODD) pump, or software restart.

WARNING: This message will initialize the selected unit. All service in this unit will be lost for the duration of the initialization.

2. FORMAT

```
INIT:DLN=a-b,c;
```

3. EXPLANATION OF MESSAGE

`a` = Ring node group number of selected DLN. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Ring node member number of selected DLN (default 2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The desired initialization level. Valid value(s):

- `PUMP` = Pump the ODD data to the DLN.
- `RESTART` = Restart the operating system and all software processes of the DLN node processor and attached processor.
- `SCAN` = Initialize the direct memory access (DMA) scanning process in the active DLN.

4. SYSTEM RESPONSE

`NA` = No acknowledgement. The DLN did not respond to the start scan operation (SCAN only).

`NG` = No good. The message was not recognized, or was not acceptable. Valid value(s):

- `- DLN IS NOT ACTIVE` = SCAN was requested for a DLN that is not in the active state.
- `- DLN NOT EQUIPPED` = DLN is not equipped in this office.
- `- NODE IS NOT A DLN` = The specified ring node address is not a DLN.

`OK` = Good. The message was accepted and the action completed (SCAN only).

`PF` = Printout follows. Followed by the REPT:RINGMON output message.

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`RL` = Retry later. Valid value(s):
- `CNI NOT AVAILABLE` = The common network interface (CNI) was out of service or in initialization.
- `DLN INIT IN PROGRESS` = A DLN initialization was already in progress.
- `RING IS IN SILENCE STATE` = Communication both to and from the node is not available at this time.

5. REFERENCES

Output Message(s):

```
REPT:RINGMON-AST
REPT:RINGMON-DAD
REPT:RINGMON-DED
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling and Associated Signaling Service Features*

MCC Display Page(s):

118 (CNI FRAME AND CCS STATUS)

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INIT:DSL

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a single process purge (SPP) and reinitialization of a terminal process in a switching module (SM) that controls the named Operator Services Position System (OSPS) digital subscriber line (DSL).

2. FORMAT

```
INIT:DSL,{BST=a-b|DASC=c-d|EIS=x-y|RAS=e-f|OAPO=g|
OAPF=h|XDPO=i|XDPF=j|OPT=k-l|RTRS=m-n|
HOBIS=o-p|HOBICV=q-r|HOBICR=q-s|AQ=t-u|MISLNK=v-w};
```

3. EXPLANATION OF MESSAGE

`a` = Operator service center (OSC) number associated with an OSPS basic services terminal (BST). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = BST relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Directory assistance services computer (DASC) host number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Relative DSL number assigned to a DASC data link DSL.

`e` = Remote integrated services line unit (RISLU) site number associated with OSPS remote alarm section (RAS). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Relative data link DSL number assigned to an alarm conversion circuit (ACC) in the RAS.

`g` = OSC number that identifies an OSPS administrative processor associated with the OSC (OAPO). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Force management center (FMC) number that identifies an OSPS administrative processor associated with the FMC (OAPF). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = OSC number that identifies an OSPS external data port associated with the OSC (XDPO). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = FMC number that identifies an OSPS external data port associated with the FMC (XDPF). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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k = Operator service center (OSC) number associated with an OSPS operator position terminal (OPT). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = OPT relative position number.

m = Real-time rating system (RTRS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Relative DSL number assigned to a RTRS data link DSL.

o = Hotel billing information system (HOBIS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Relative DSL number assigned to a HOBIS data link DSL.

q = Hotel billing information center (HOBIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Relative DSL number assigned to a HOBICV (HOBIC voice-quote terminal) data link DSL.

s = Relative DSL number assigned to a HOBICR (HOBIC record terminal) data link DSL.

t = Autoquote DSL modem pool number.

u = Relative DSL number assigned to an autoquote data link DSL.

v = Commercial automatic call distributor management information system/computer data link (MISLNK) host number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Relative DSL number assigned to a MISLNK data link DSL.

x = External information system (EIS) ID.

y = External data link (member) number relative to the EIS.

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress.

NG = No good. Valid value(s):

- OSPS DSL is not equipped in the office.
- OSPS DSL does not have an active terminal process in control of it.
- The SM specified is unavailable at this time.

RL = Retry later. There is a purge in progress.

5. REFERENCES

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Output Message(s):

```
REPT:DATA
```

Input Appendix(es):

```
APP:RANGES
```

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INIT:DSNPAGE

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

To refresh the defense switched network (DSN) network management page (page 129). The data used to draw the page are the most current available. This message is valid only for DSN switches.

2. FORMAT

```
INIT:DSNPAGE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request is accepted and completed.

`RL` = Retry later. The necessary resources are not available. Valid value(s):
- `RESOURCE SHORTAGE`

5. REFERENCES

Input Message(s):

```
ASGN:DPSCH
CLR:NMSCH
CLR:TRKDP
```

Other Manual(s):
235-900-113 *Product Specification*
235-200-300 *Defense Switched Network Applications*

MCC Display Page(s):

129 (DSN NM EXCEPTION)
109 (OVERLOAD)

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INIT:FAC-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests initialization of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S). The affected facilities' 15 MIN interval and DAY PM counts (history intervals and previous day counts also if all option is used) are marked corrupt as a result of this initialization.

Format 1 is used to initialize performance monitoring counts for a facility terminated on a DFI or a DFI-2.

Format 2 is used to initialize performance monitoring counts for all facilities terminated on a DFI-2.

Format 3 is used to initialize performance monitoring counts for all facilities terminated on a digital line and trunk unit (DLTU) model 2 (DLTU2).

Format 4 is used to initialize performance monitoring counts for all facilities terminated on an IDCU.

Format 5 is used to initialize performance monitoring counts on the specified IDCU facility (IFAC).

Format 6 is used to initialize performance monitoring counts for all facilities terminated on an IDCU-supported or DNU-S supported TR303 remote terminal (RT).

Format 7 is used to initialize current or all performance monitoring counts for all section terminating equipment (STE) facilities on a DNU-S. The PM counts associated with any subtending virtual tributary 1.5 (VT1.5) or digital signal level-1 (DS1) facilities are not initialized.

Format 8 is used to initialize current or all performance monitoring counts on a specified DNU-S STE facility. The PM counts associated with any subtending VT1.5 or DS1 facilities are not initialized.

Format 9 is used to initialize current or all performance monitoring counts on either all VT1.5s or all DS1s terminated on a DNU-S synchronous transport signal-1 (STS-1) facility. With the VT1 option, the PM counts can be initialized on all 28 VT1.5 facilities carried on an STS-1 facility. With the VT1 option, the PM counts associated with each subtending DS1 facility are not initialized. With the DS1 option, the PM counts can be initialized on all 28 DS1 facilities carried on an STS-1 facility.

Format 10 is used to initialize performance monitoring counts on a DNU-S VT1.5 facility. The PM counts associated with the subtending DS1 facility are not initialized.

Format 11 is used to initialize performance monitoring counts on a DNU-S DS1 facility.

2. FORMAT

```
[1]    INIT:FAC,DFAC=a-b-c-d;

[2]    INIT:FAC,DFI=a-b-c;

[3]    INIT:FAC,DLTU=a-b;

[4]    INIT:FAC,IDCU=a-e[,{ALL|CURR}][,{NE|BOTH}];
```

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```
[5]    INIT:FAC,IFAC=a-e-f[,{ALL|CURR}][,{NE|FE|BOTH}];

[6]    INIT:FAC,{DNUSRT=a-h-g|IDCURT=a-e-g}[,{ALL|CURR}][,{FE|BOTH}];

[7]    INIT:FAC,DNUS=a-h[,{ALL|CURR}];

[8]    INIT:FAC,EC1STE=a-h-i-j[,{ALL|CURR}]

[9]    INIT:FAC,STSFAC=a-h-i-j-k,VT1|DS1[,{ALL|CURR}][,{NE|FE|BOTH}];

[10]   INIT:FAC,VT1FAC=a-h-i-j-k-l-m[,{ALL|CURR}][,{NE|FE|BOTH}];

[11]   INIT:FAC,DS1SFAC=a-h-i-j-k-l-m[,{ALL|CURR}][,{NE|FE|BOTH}];
```

3. EXPLANATION OF MESSAGE

`ALL` = Initialize all 15-minute and day PM counts, including current, previous and history counts.

`BOTH` = Initialize counts at both ends of the facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.

`CURR` = Initialize all current 15-minute interval and current day PM counts (default).

`FE` = Initialize counts at the far end of facility only.

`NE` = Initialize PM counts at the switch end of facility only.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`j` = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = VT1.5 facility group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = VT1.5 facility member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The input contained an illegal specification.

`PF` = Printout follows. The request has been accepted and is followed by the INIT:FAC output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ALW:FAC
INH:FAC
INIT:REG
OP:FAC
```

Output Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
INIT:REG
OP:FAC
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance Procedures*

RC/V View(s):

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8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
20.23 (IDCU FACILITY EQUIPMENT)
20.25 (DNU-S PERFORMANCE MONITORING THRESHOLD GROUP)
22.15 (PERFORMANCE MONITORING)

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INIT:FAC-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests initialization of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), a digital networking unit - synchronous optical network (SONET) (DNU-S), or an optical interface unit (OIU). The affected facilities' 15 MIN interval and DAY PM counts (history intervals and previous day counts also if all option is used) are marked corrupt as a result of this initialization.

Format 1 is used to initialize performance monitoring counts for a facility terminated on a DFI or a DFI-2.

Format 2 is used to initialize performance monitoring counts for all facilities terminated on a DFI-2.

Format 3 is used to initialize performance monitoring counts for all facilities terminated on a digital line and trunk unit (DLTU) model 2 (DLTU2).

Format 4 is used to initialize performance monitoring counts for all facilities terminated on an IDCU.

Format 5 is used to initialize performance monitoring counts on the specified IDCU facility (IFAC).

Format 6 is used to initialize performance monitoring counts for all facilities terminated on an IDCU-supported or DNU-S supported TR303 remote terminal (RT).

Format 7 is used to initialize current or all performance monitoring counts for all SONET terminating equipment (STE) facilities on a DNU-S. The PM counts associated with any subtending virtual tributary 1.5 (VT1.5) or digital signal level-1 (DS1) facilities are not initialized.

Format 8 is used to initialize current or all performance monitoring counts on a specified DNU-S STE facility. The PM counts associated with any subtending VT1.5 or DS1 facilities are not initialized.

Format 9 is used to initialize current or all performance monitoring counts on either all VT1.5s or all DS1s terminated on a DNU-S synchronous transport signal - level 1 (STS-1) facility. With the VT1 option, the PM counts can be initialized on all 28 VT1.5 facilities carried on an STS-1 facility. With the VT1 option, the PM counts associated with each subtending DS1 facility are not initialized. With the DS1 option, the PM counts can be initialized on all 28 DS1 facilities carried on an STS-1 facility.

Format 10 is used to initialize performance monitoring counts on a DNU-S VT1.5 facility. The PM counts associated with the subtending DS1 facility are not initialized.

Format 11 is used to initialize performance monitoring counts on a DNU-S DS1 facility.

Format 12 is used to initialize performance monitoring counts on an OIU facility. If subt option is used, PM counts associated with all subtending facilities under this OIU will also be initialized.

Format 13 is used to initialize performance monitoring counts on a optical carrier - level 3 (OC3 or OC3C) facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this OC3 will also be initialized.

Format 14 is used to initialize performance monitoring counts on a optical carrier - level 4 (STS1 or STS3C)

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facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this facility will also be initialized

Format 15 is used to initialize performance monitoring counts on a VT1.5 facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this VT1.5 will also be initialized.

Format 16 is used to initialize performance monitoring counts on a DS1 facility under OIU.

Format 17 is used to initialize performance monitoring counts on all protocol layers associated with an OIU PPP link (PPPLK).

2. FORMAT

```
[1]    INIT:FAC,DFAC=a-b-c-d;
       ____________________________________________________________

[2]    INIT:FAC,DFI=a-b-c;
       ____________________________________________________________

[3]    INIT:FAC,DLTU=a-b;
       ____________________________________________________________

[4]    INIT:FAC,IDCU=a-e[,{ALL|CURR}][,{NE|BOTH}];
       ____________________________________________________________

[5]    INIT:FAC,IFAC=a-e-f[,{ALL|CURR}][,{NE|FE|BOTH}];
       ____________________________________________________________

[6]    INIT:FAC,{DNUSRT=a-h-g|IDCURT=a-e-g}[,{ALL|CURR}][,{FE|BOTH}];
       ____________________________________________________________

[7]    INIT:FAC,DNUS=a-h[,{ALL|CURR}];
       ____________________________________________________________

[8]    INIT:FAC,EC1STE=a-h-i-j[,{ALL|CURR}];
       ____________________________________________________________

[9]    INIT:FAC,STSFAC=a-h-i-j-k,VT1|DS1[,{ALL|CURR}][,{NE|FE|BOTH}];
       ____________________________________________________________

[10]   INIT:FAC,VT1FAC=a-h-i-j-k-l-m[,{ALL|CURR}][,{NE|FE|BOTH}];
       ____________________________________________________________

[11]   INIT:FAC,DS1SFAC=a-h-i-j-k-l-m[,{ALL|CURR}][,{NE|FE|BOTH}];
       ____________________________________________________________

[12]   INIT:FAC,OIU=a-n[,{ALL|CURR}][,{NE|FE|BOTH}];
       ____________________________________________________________

[13]   INIT:FAC[,OC3|OC3C]=a-n-o-q-p[,{ALL|CURR}][,{NE|FE|BOTH}][,SUBT];
       ____________________________________________________________

[14]   INIT:FAC[,STS1|STS3C]=a-n-o-q-r[,{ALL|CURR}][,{NE|FE|BOTH}][,SUBT];
       ____________________________________________________________
```

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```
[15]   INIT:FAC,VT15=a-n-o-q-r-s-t[,{ALL|CURR}][,{NE|FE|BOTH}][,SUBT];
       ____________________________________________________________

[16]   INIT:FAC,DS1=a-n-o-q-r-s-t[,{ALL|CURR}][,{NE|FE|BOTH}];
       ____________________________________________________________

[17]   INIT:FAC,PPPLK=a-n-o-q-r[,{ALL|CURR}];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ALL` = Initialize all 15-minute and day PM counts, including current, previous and history counts.

`BOTH` = Initialize counts at both ends of the facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.

`CURR` = Initialize all current 15-minute interval and current day PM counts (default).

`FE` = Initialize counts at the far end of facility only.

`NE` = Initialize PM counts at the switch end of facility only.

`SUBT` = Initialize subtending facilities.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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k = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = VT1.5 facility group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = VT1.5 facility member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = OC3 or OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = STS1 or STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = VT1.5 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = VT1.5 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and is followed by the INIT:FAC output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ALW:FAC
INH:FAC
INIT:REG
OP:FAC
```

Output Message(s):

```
ALW:FAC
```

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```
INH:FAC
INIT:FAC
INIT:REG
OP:FAC
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
20.23	IDCU FACILITY EQUIPMENT
20.25	DNU-S PERFORMANCE MONITORING THRESHOLD GROUP
22.15	PERFORMANCE MONITORING

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INIT:FAC-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests initialization of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), a digital networking unit - synchronous optical network (SONET) (DNU-S), or an optical interface unit (OIU). The affected facilities' 15 MIN interval and DAY PM counts (history intervals and previous day counts also if all option is used) are marked corrupt as a result of this initialization.

This command can also be used to initializes performance monitoring (PM) data for a session initiation protocol (SIP) protocol handler (PH) (other PHs are not allowed). The affected 15 MIN interval and DAY PM counts are marked corrupt as a result of this initialization.

Format 1 is used to initialize performance monitoring counts for a facility terminated on a DFI or a DFI-2.

Format 2 is used to initialize performance monitoring counts for all facilities terminated on a DFI-2.

Format 3 is used to initialize performance monitoring counts for all facilities terminated on a digital line and trunk unit (DLTU) model 2 (DLTU2).

Format 4 is used to initialize performance monitoring counts for all facilities terminated on an IDCU.

Format 5 is used to initialize performance monitoring counts on the specified IDCU facility (IFAC).

Format 6 is used to initialize performance monitoring counts for all facilities terminated on an IDCU-supported or DNU-S supported TR303 remote terminal (RT).

Format 7 is used to initialize current or all performance monitoring counts for all SONET terminating equipment (STE) facilities on a DNU-S. The PM counts associated with any subtending virtual tributary 1.5 (VT1.5) or digital signal level-1 (DS1) facilities are not initialized.

Format 8 is used to initialize current or all performance monitoring counts on a specified DNU-S STE facility. The PM counts associated with any subtending VT1.5 or DS1 facilities are not initialized.

Format 9 is used to initialize current or all performance monitoring counts on either all VT1.5s or all DS1s terminated on a DNU-S synchronous transport signal - level 1 (STS-1) facility. With the VT1 option, the PM counts can be initialized on all 28 VT1.5 facilities carried on an STS-1 facility. With the VT1 option, the PM counts associated with each subtending DS1 facility are not initialized. With the DS1 option, the PM counts can be initialized on all 28 DS1 facilities carried on an STS-1 facility.

Format 10 is used to initialize performance monitoring counts on a DNU-S VT1.5 facility. The PM counts associated with the subtending DS1 facility are not initialized.

Format 11 is used to initialize performance monitoring counts on a DNU-S DS1 facility.

Format 12 is used to initialize performance monitoring counts on an OIU facility. If subt option is used, PM counts associated with all subtending facilities under this OIU will also be initialized.

Format 13 is used to initialize performance monitoring counts on a optical carrier - level 3 (OC3 or OC3C)

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facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this OC3 will also be initialized.

Format 14 is used to initialize performance monitoring counts on a optical carrier - level 4 (STS1 or STS3C) facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this facility will also be initialized

Format 15 is used to initialize performance monitoring counts on a VT1.5 facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this VT1.5 will also be initialized.

Format 16 is used to initialize performance monitoring counts on a DS1 facility under OIU.

Format 17 is used to initialize performance monitoring counts on all protocol layers associated with an OIU PPP link (PPPLK).

Format 18 is used to initialize performance monitoring counts on the expansion access interface unit (EAIU) timeslot group (TSGRP).

Format 19 is used to initialize performance monitoring counts on all protocol layers associated with an SIP PH (other PHs are not allowed).

2. FORMAT

```
[1]    INIT:FAC,DFAC=a-b-c-d;
       ____________________________________________________________

[2]    INIT:FAC,DFI=a-b-c;
       ____________________________________________________________

[3]    INIT:FAC,DLTU=a-b;
       ____________________________________________________________

[4]    INIT:FAC,IDCU=a-e[,{ALL|CURR}][,{NE|BOTH}];
       ____________________________________________________________

[5]    INIT:FAC,IFAC=a-e-f[,{ALL|CURR}][,{NE|FE|BOTH}];
       ____________________________________________________________

[6]    INIT:FAC,{DNUSRT=a-h-g|IDCURT=a-e-g}[,{ALL|CURR}][,{FE|BOTH}];
       ____________________________________________________________

[7]    INIT:FAC,DNUS=a-h[,{ALL|CURR}];
       ____________________________________________________________

[8]    INIT:FAC,EC1STE=a-h-i-j[,{ALL|CURR}];
       ____________________________________________________________

[9]    INIT:FAC,STSFAC=a-h-i-j-k,VT1|DS1[,{ALL|CURR}][,{NE|FE|BOTH}];
       ____________________________________________________________

[10]   INIT:FAC,VT1FAC=a-h-i-j-k-l-m[,{ALL|CURR}][,{NE|FE|BOTH}];
       ____________________________________________________________

[11]   INIT:FAC,DS1SFAC=a-h-i-j-k-l-m[,{ALL|CURR}][,{NE|FE|BOTH}];
```

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```
[12]   INIT:FAC,OIU=a-n[,{ALL|CURR}][,{NE|FE|BOTH}];

[13]   INIT:FAC,{OC3=a-n-o-q-p|OC3C=a-n-o-q-p}. . .
           . . .[,{ALL|CURR}][,{NE|FE|BOTH}][,SUBT];

[14]   INIT:FAC,{STS1=a-n-o-q-r|STS3C=a-n-o-q-r}. . .
           . . .[,{ALL|CURR}][,{NE|FE|BOTH}][,SUBT];

[15]   INIT:FAC,VT15=a-n-o-q-r-s-t[,{ALL|CURR}][,{NE|FE|BOTH}][,SUBT];

[16]   INIT:FAC,DS1=a-n-o-q-r-s-t[,{ALL|CURR}][,{NE|FE|BOTH}];

[17]   INIT:FAC,PPPLK=a-n-o-q-r[,{ALL|CURR}];

[18]   INIT:FAC,AIUTSGRP=a-u-v-w;

[19]   INIT:FAC,PSUPH=a-x-y-z[,{ALL|CURR}];
```

3. EXPLANATION OF MESSAGE

`ALL` = Initialize all 15-minute and day PM counts, including current, previous and history counts.

`BOTH` = Initialize counts at both ends of the facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.

`CURR` = Initialize all current 15-minute interval and current day PM counts (default).

`FE` = Initialize counts at the far end of facility only.

`NE` = Initialize PM counts at the switch end of facility only.

`SUBT` = Initialize subtending facilities.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`e` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = VT1.5 facility group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = VT1.5 facility member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = OC3 or OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = STS1 or STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = VT1.5 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = VT1.5 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = EAIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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w = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and is followed by the INIT:FAC output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ALW:FAC
INH:FAC
INIT:REG
OP:FAC
```

Output Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
INIT:REG
OP:FAC
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):
8.1 OFFICE PARAMETERS (MISCELLANEOUS)
20.12 STS-1 FACILITY PROVISIONING (DNU-S)

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20.23 IDCU FACILITY EQUIPMENT (IFAC)
20.24 VT1.5 FACILITY PROVISIONING (DNU-S)
20.25 DNU-S PERFORMANCE MONITORING THRESHOLD GROUP (SM2000)
20.29 OIU SONET TERMINATION EQUIPMENT (SM2000)
20.30 HIGH-LEVEL VIRTUAL CONTAINER (OIU)
20.31 LOW-LEVEL VIRTUAL CONTAINER (OIU)
20.32 PERFORMANCE MONITORING THRESHOLD GROUP (OIU, SIP PSUPH)
22.15 PERFORMANCE MONITORING (DLTU)
33.16 SIP-T PROCESSOR GROUP

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INIT:FACR-A

Software Release: 5E15 - 5E16(1)
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Format 1 requests that the password for retrieval of the feature activation counting and reconciliation (FACR) output files be initialized.

Format 2 allows the user to control whether or not the output from a detail FACR report can be transmitted off the switch.

2. FORMAT

```
[1]    INIT:FACR:PASSWD=a,KEY=b;
```

```
[2]    INIT:FACR:DETAIL=c;
```

3. EXPLANATION OF MESSAGE

`a` = An eight digit password used by the software change administration and notification system (SCANS) software for transmission of the FACR data file.

`b` = An two character key used by SCANS software for transmission of the FACR data file.

`c` = Output status. Valid value(s):
- `Y` = Allow FACR detail output to be transmitted off the switch (default).
- `N` = Prohibit FACR detail output from being transmitted off the switch.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INIT:FACR output message.

5. REFERENCES

Output Message(s):

`INIT:FACR`

Other Manual(s):
235-040-100 *OA&M Planning Guide*
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance*

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INIT:FACR-B

Software Release: 5E16(2) and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Format 1 requests that the password for retrieval of the feature activation counting and reconciliation (FACR) output files be initialized.

Format 2 allows the user to control whether or not the output from a detail FACR report can be transmitted off the switch.

Format 3 allows the user to select whether or not the data collected from applications (for example, 5ECAP) is processed to extract the differences between the last data collection. Transmission of just the differences (deltas) can result in significantly less time needed to complete the data acquisition over an analog modem.

2. FORMAT

```
[1]    INIT:FACR:PASSWD=a,KEY=b;
       _____________________________________________________________

[2]    INIT:FACR:DETAIL=c;
       _____________________________________________________________

[3]    INIT:FACR:APPLDELTA=d;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = An eight digit password used by the software change administration and notification system (SCANS) software for transmission of the FACR data file.

`b` = An two character key used by SCANS software for transmission of the FACR data file.

`c` = Output status. Valid value(s):
- `Y` = Allow FACR detail output to be transmitted off the switch (default).
- `N` = Prohibit FACR detail output from being transmitted off the switch.

`d` = Delta data collection indicator. Valid value(s):
- `Y` = Include extraction of differences in the application data collection.
- `N` = Do not extract differences in the application data collection (default).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INIT:FACR output message.

5. REFERENCES

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Output Message(s):

```
INIT:FACR
```

Other Manual(s):
235-040-100 *OA&M Planning Guide*
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance*

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INIT:LN

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5, CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests forced removal from service and restart of the specified node, regardless of the state of the link and other nodes. Restart consists of initializing the software in the node without pumping it from the administrative module (AM). A successful restart returns the node to service.

An attempt is made to remove the node from service and restart it, provided that the node is not the ring peripheral controller (RPC), the node major state is active (ACT), the node is in the active ring segment, the interprocess message switch (IMS) subsystem is not initializing at a level higher than 1A, and the software in the node is designed to be restartable. The removal changes the major state to out-of-service (OOS). The restart changes the major state to initialization (INIT) only if the node has an attached processor. If successful, the restart changes the major state to ACT. If the restart fails, the major state is changed to OOS and the user becomes responsible for restoring the node to service. This input message does not use the maintenance input request administrator (MIRA) queue, so the OP:DMQ and STOP:DMQ input messages do not apply to it and it may be executed ahead of previously entered input messages in the MIRA queue.

WARNING: This input message can cause signaling point isolation; isolating the office and interrupting common channel signaling (CCS) message processing, by removing the last link node (LN) of a set.

2. FORMAT

```
INIT:LNa=b;
```

3. EXPLANATION OF MESSAGE

`a` = A ring node (RN) group number with explicit leading zero for group numbers less than 10. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The node's position in the RN group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INIT:LN output message.

5. REFERENCES

Input Message(s):

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```
FRMV:LN
DGN:LN
RMV:LN
RST:LN
```

Output Message(s):

```
DGN:LN
FRMV:LN
INIT:LN
RMV:LN
RST:LN
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Services and Associated Signaling Service Feature*

MCC Display Page(s):

118 (CNI RING STATUS PAGE)
1520 (RING NODE STATUS PAGE)
1521 (SIGNALING LINK SUMMARY PAGE)
1522 (SIGNALING LINK PAGE)

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INIT:MHD

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Formats all or specific disk tracks of the disk pack with initialized sectors.

Note: New disk packs have no sectors and must be formatted before being used.

For SMD MHDs, disk tracks are formatted a section at a time under the control of the format input message.

For SCSI MHDs, the entire disk is formatted by the SCSI drive's embedded controller.

It may take up to 30 minutes to format a complete disk pack.

WARNING: Any existing data on the targeted disk tracks will be destroyed.

2. FORMAT

```
INIT:MHD=a[:VFY][,TRACK b[&&c]|,NEW];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual for information on ranges for the following variables.

`NEW` = For SMD MHD, build defect management maps using the manufacturer's defect table. The result is a new working (COMBINED) defect map.

The NEW option must be used if a new disk pack is being formatted and defect management is supported for the drive size.

For SCSI MHDs, this option is not valid since the PRIMARY manufacturer's defect table cannot be altered. New defects can only be added to the GROWING defect table.

`VFY` = This option will invoke the verify procedure.

For SMD MHDs, the verify procedure is performed immediately after each section of the disk is formatted.

For SCSI MHDs, the entire disk is formatted, then the verify procedure is performed.
Note: A VFY MHD output message will not result if this option is selected.

`a` = Member number.

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`b` = For SMD MHDs, specifies the track number to be formatted (and verified). The track number may be a single track number or the first track number in the range. Track numbers are given in decimal notation.

For SCSI MHDs, this option is not valid because specific tracks cannot be formatted.

`c` = For SMD MHDs, specifies the last track number of a range to be formatted (and verified).

For SCSI MHDs, this option is not valid because specific tracks cannot be formatted.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the INIT:MHD output message.

5. REFERENCES

Input Message(s):

`VFY:MHD`

Output Message(s):

`INIT:MHD`
`VFY:MHD`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

`123 (DISK FILE SYSTEM ACCESS)`
123 (DISK FILE SYSTEM ACCESS)

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INIT:REG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of the error registers of the specified hardware unit be initialized. This is used only for T1 error registers on digital facility interfaces (DFIs).

Format 1 is used to initialize the registers on a DFI, a remote digital facility interface (RDFI), or a host digital facility interface (HDFI). Format 2 is used only with a *SLC®* digital facility interface (SDFI). Format 3 is used only with a remote integrated services line unit (RISLU) digital facility interface (DFIH).

2. FORMAT

```
[1]    INIT:REG,{DFI|RDFI|HDFI}=a-b-c;

[2]    INIT:REG,SDFI=a-d-e;

[3]    INIT:REG,DFIH=a-f-g;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital carrier line unit (DCLU) number (for SDFI only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = SDFI number (for SDFI only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = RISLU DLTU number (for RISLU only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = DFIH number (for RISLU only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request was not accepted because:
- An illegal SM number was specified.
- An illegal DLTU number was specified.

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- An illegal DCLU number was specified.
- An illegal DFI number was specified.

`PF` = Printout follows. Followed by the INIT:REG output message.

`RL` = Retry later. Communication lost to the specified SM.

5. REFERENCES

Output Message(s):

`INIT:REG`
`OP:REG`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

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INIT:SC

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request reset of signaling converter unit equipped on facility terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), or a digital networking unit - synchronous optical network (SONET) (DNU-S) (VT1.5 facility or DS1 facility) to perform its initialization.

2. FORMAT

```
INIT:SC,a;
```

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):
`FAC=b-c-d-e`
`VT1FAC=b-f-g-h-i-j-k`
`DS1SFAC=b-f-g-h-i-j-k`

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = VT1.5 facility group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = VT1.5 facility member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.
PF = Printout follows. Followed by the INIT:SC output message.
RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
RST:FAC
RST:VT1FAC
RST:DS1SFAC
```

Output Message(s):

```
RST:FAC
RST:VT1FAC
RST:DS1SFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
5.5 (TRUNK MEMBER)

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INIT:SCCP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an initialization of named table(s) in the selected common channel signaling (CCS) global switching module (GSM). If the option LEVEL is not given, then all SCCP tables will be initialized.

WARNING: All initializations will affect SCCP functionality to some degree. Some may be service affecting.

2. FORMAT

```
INIT:SCCP,SM=a[,LEVEL=b];
```

3. EXPLANATION OF MESSAGE

`a` = CCS GSM number.

`b` = The level of initialization. Valid value(s):

- `GTTFIXED` = Global title translation (GTT) fixed digit table.
- `GTTINFO` = GTT information table.
- `GTTINIT` = All GTT tables (GTTINFO, GTTFIXED, GTTTBL, and GTTTRAN).
- `GTTTBL` = GTT table.
- `GTTTRAN` = GTT area table.
- `GTTTT` = GTT type table.
- `SCMGINIT` = All SCCP NM tables (static and dynamic).
- `SCMGSTAT` = SCCP NM static table.

4. SYSTEM RESPONSE

`PF` = Printout follows. An INIT:SCCP output message follows in response to the request.

`NG` = No good. Valid supplemental reasons are:

- `SCCP NOT LOADED ON SM` = The specified SM is unequipped or does not have an SCCP platform provisioned.
- `SCCP NOT OPERATIONAL ON SM` = SCCP is in the process of being provisioned on the specified SM (growth state).

`RL` = Retry later. The only valid reason is:

- `SM NOT AVAILABLE` = Command can not be processed because the specified SM is not accessible.

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5. REFERENCES

Output Message(s):

```
INIT:SCCP
```

INIT:SM-A

Software Release: 5E15 - 5E16(1)
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests initialization of the selected switching modules (SMs) at the specified level. The initialization level may be a selective initialization (SI), a full initialization (FI), or a power-up (PWRUP) initialization as specified. In addition, a full pump of the SM may be specified for a full or selective initialization. Three types of pumps are possible: The normal (fast) pump, broadcast pump which pumps text images of like SMs simultaneously to reduce total pump time, and a backup pump which does not use special hardware but performs much slower.

If a single SM initialization is requested, that SM will be initialized immediately. If a range of SMs have an initialization requested, the in-service SMs will be initialized in numerical order, by SM type. All host SMs (HSMs) initialize first (numerically), all non-remote SMs (RSMs) [local SMs (LSMs), optically remoted SM (ORMs), distinctive remote SMs (DRMs) and two-mile ORMs (TRMs)] are initialized next (numerically, regardless to SM type), and RSMs are initialized last (numerically). SMs in special growth will be initialized after all in-service SMs, and are initialized in numerical order. For broadcast pump and power-up initialization, RSMs are initialized in numerical order after all other SMs, which are initialized immediately. In addition to SM types, the user can also specify configuration types. For example, if HSM and LOADED are specified, then only an SM that is both HSM type and LOADED configuration will be initialized. Further, if HSM, LSM, BASIC, and LOADED are specified, then any SM that is either HSM or LSM type, and is either BASIC or LOADED configuration will be initialized. Multiple ranges of SMs (up to 10) can also be specified. For example, 3&&6-9-12-16&&25 means that SMs 3 to 6, 9, 12, and 16 to 25 will be initialized provided they match the necessary criteria. If an SM cannot be successfully initialized, (such as, loss of communication), the initialization sequence will pause until the problem is cleared, or the initialization request is cancelled (Format 4). Manual SM initialization requests will attempt to clear any isolation conditions prior to the initialization. Pending initialization requests may be canceled by selecting the NOINIT level as shown below.

WARNING: All service in this unit will be lost for the duration of the initialization. A request for a pump may cause a loss of calls during the pump.

2. FORMAT

```
[1]    INIT:SM=a[&&b][-]...,FI[,BCST|,PUMP|,NPUMP|,BPUMP][,LSM][,HSM]
       [,RSM][,ORM][,TRM][,DRM][,c][,d][,e][,f][,g];

[2]    INIT:SM=a[&&b][-]...,SI[,PUMP|,NPUMP|,BPUMP][,LSM][,HSM][,RSM]
       [,ORM][,TRM][,DRM][,c][,d][,e][,f][,g];

[3]    INIT:SM=a[&&b][-]...,PWRUP[,LSM][,HSM][,RSM][,ORM][,TRM][,DRM]
       [,c][,d][,e][,f][,g];

[4]    INIT:SM=a[&&b][-]...,NOINIT[,LSM][,HSM][,RSM][,ORM][,TRM][,DRM]
       [,c][,d][,e][,f][,g];
```

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3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

BCST = Perform a full SM pump with the initialization. A broadcast pump will be used. If this fails, no attempt is made to revert to any other type of pump. This is the recommended option to request a full pump of multiple SMs.

BPUMP = Perform a full SM pump using the backup pump function. This pump uses the control time slots (no special hardware) and may succeed when a normal pump fails; however, it is at least 16 times slower than the normal pump. This option should be used for a pump peripheral controller (PPC) duplex failure in the communication module (CM) or failure of the bootstrapper (BTSR) hardware in the SM.

FI = Full initialization. Clear all calls.

NOINIT = No initialization. Cancel a previous initialization request.

NPUMP = Perform a full SM pump using the normal pump function. Only NPUMP will be used. No attempt will be made to switch to BPUMP if any errors are encountered.

PUMP = Perform a full SM pump with the initialization. A normal pump (NPUMP) will be used unless a failure occurs, in which case a backup pump (BPUMP) will be selected automatically. This is the recommended option to request a full pump of a single SM.

PWRUP = Power-up initialization. This is the same as the FI option plus clearing all of processor memory. It simulates a power-up of the SM. As in an actual power-up, RSMs will request a full SM pump (PUMP), and non-RSMs will request a broadcast pump (BCST).

SI = Selective initialization. Clear all transient calls; save stable calls.

a = SM number, or a lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

c = SM basic configuration. Valid value(s):
BASIC
CNFG000

d = SM standard configuration. Valid value(s):
CNFG001
STANDARD

e = SM loaded configuration. Valid value(s):
CNFG002
LOADED

f = SM signaling configuration. Valid value(s):
CNFG003

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SIGNALING

g = SM-2000 configuration. Valid value(s):
CNFG2K00
SM2000

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress.
NG = No good. Valid value(s):
- GENERIC UTILITIES ACTIVITY PROHIBIT ACTION = Generic utilities breakpoints in the SM must be cleared before the request can be accepted.
- ILLEGAL LEVEL/PUMP COMBINATION = Illegal pump option was specified.
- INTERNAL ERROR = Request could not be handled due to system software problems.
- INVALID SM RANGE/TYPE COMBINATION = Request did not include an SM of the specified type.
- NO INIT LEVEL SPECIFIED
- ODD GROWTH IN PROGRESS = Office-dependent data (ODD) growth activity must be completed before request can be accepted.

OK = Good. The message was accepted and the action completed (NOINIT only).

5. REFERENCES

Input Message(s):

```
SET:MINMODE-SM
```

Output Message(s):

```
INIT:SM-LVL-SUM
```

Other Manual(s):

235-105-220 *Corrective Maintenance*

235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1800 (INH & RCVRY CNTL)

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INIT:SM-B

Software Release: 5E16(2) and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests initialization of the selected switching modules (SMs) at the specified level. The initialization level may be a selective initialization (SI), a full initialization (FI), or a power-up (PWRUP) initialization as specified. In addition, a full pump of the SM may be specified for a full or selective initialization. Three types of pumps are possible. The normal (fast) pump, broadcast pump which pumps text images of like SMs simultaneously to reduce total pump time, and a backup pump which does not use special hardware but performs much slower.

If a single SM initialization is requested, that SM will be initialized immediately.

If a range of SMs have an initialization requested, the in-service SMs will be initialized in numerical order, by SM type. All host SMs (HSMs) initialize first (numerically), all non-remote SMs (RSMs) [local SMs (LSMs), optically remoted SM (ORMs), distinctive remote SMs (DRMs) and two-mile ORMs (TRMs)] are initialized next (numerically, regardless to SM type), and RSMs are initialized last (numerically). SMs in special growth will be initialized after all in-service SMs, and are initialized in numerical order. For broadcast pump and power-up initialization, RSMs are initialized in numerical order after all other SMs, which are initialized immediately.

In addition to SM types, the user can also specify configuration types. For example, if HSM and LOADED are specified, then only an SM that is both HSM type and LOADED configuration will be initialized. Further, if HSM, LSM, BASIC, and LOADED are specified, then any SM that is either HSM or LSM type, and is either BASIC or LOADED configuration will be initialized.

Multiple ranges of SMs (up to 10) can also be specified. For example, 3&&6-9-12-16&&25 means that SMs 3 to 6, 9, 12, and 16 to 25 will be initialized provided they match the necessary criteria.

If an SM cannot be successfully initialized, (such as, loss of communication), the initialization sequence will pause until the problem is cleared, or the initialization request is cancelled (Format 4).

Manual SM initialization requests will attempt to clear any isolation conditions prior to the initialization.

Pending initialization requests may be canceled by selecting the NOINIT level as shown below.

WARNING: All service in this unit will be lost for the duration of the initialization. A request for a pump may cause a loss of calls during the pump.

2. FORMAT

```
[1]    INIT:SM=a[&&b][-]...,FI[,BCST|,PUMP|,NPUMP|,BPUMP]. . .
       . . .[,LSM][,HSM][,RSM][,ORM][,TRM][,DRM][,c][,d][,e]. . .
       . . .[,f][,g][,h];
```

```
[2]    INIT:SM=a[&&b][-]...,SI[,PUMP|,NPUMP|,BPUMP][,LSM]. . .
```

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```
       . . .[,HSM][,RSM][,ORM][,TRM][,DRM][,c][,d][,e][,f][,g][,h];
       ____________________________________________________________

[3]    INIT:SM=a[&&b][-]...,PWRUP[,LSM][,HSM][,RSM][,ORM]. . .
       . . .[,TRM][,DRM][,c][,d][,e][,f][,g][,h];
       ____________________________________________________________

[4]    INIT:SM=a[&&b][-]...,NOINIT[,LSM][,HSM][,RSM][,ORM]. . .
       . . .[,TRM][,DRM][,c][,d][,e][,f][,g][,h];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`BCST` = Perform a full SM pump with the initialization. A broadcast pump will be used. If this fails, no attempt is made to revert to any other type of pump. This is the recommended option to request a full pump of multiple SMs.

`BPUMP` = Perform a full SM pump using the backup pump function. This pump uses the control time slots (no special hardware) and may succeed when a normal pump fails; however, it is at least 16 times slower than the normal pump. This option should be used for a pump peripheral controller (PPC) duplex failure in the communication module (CM) or failure of the bootstrapper (BTSR) hardware in the SM.

`FI` = Full initialization. Clear all calls.

`NOINIT` = No initialization. Cancel a previous initialization request.

`NPUMP` = Perform a full SM pump using the normal pump function. Only NPUMP will be used. No attempt will be made to switch to BPUMP if any errors are encountered.

`PUMP` = Perform a full SM pump with the initialization. A normal pump (NPUMP) will be used unless a failure occurs, in which case a backup pump (BPUMP) will be selected automatically. This is the recommended option to request a full pump of a single SM.

`PWRUP` = Power-up initialization. This is the same as the FI option plus clearing all of processor memory. It simulates a power-up of the SM. As in an actual power-up, RSMs will request a full SM pump (PUMP), and non-RSMs will request a broadcast pump (BCST).

`SI` = Selective initialization. Clear all transient calls; save stable calls.

`a` = SM number, or a lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = SM basic configuration. Valid value(s):

```
BASIC
CNFG000
```

`d` = SM standard configuration. Valid value(s):

```
CNFG001
STANDARD
```

e = SM loaded configuration. Valid value(s):

```
CNFG002
LOADED
```

f = SM signaling configuration. Valid value(s):

```
CNFG003
SIGNALING
```

g = SM-2000 configuration. Valid value(s):

```
CNFG2K00
SM2000
```

h = *PowerPC*® SM-2000 configuration. Valid value(s):

```
CNFG2KPPC
SM2KPPC
```

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress.

NG = No good. May also include:
- GENERIC UTILITIES ACTIVITY PROHIBIT ACTION = Generic utilities breakpoints in the SM must be cleared before the request can be accepted.
- ILLEGAL LEVEL/PUMP COMBINATION = Illegal pump option was specified.
- INTERNAL ERROR = Request could not be handled due to system software problems.
- INVALID SM RANGE/TYPE COMBINATION = Request did not include an SM of the specified type.
- NO INIT LEVEL SPECIFIED
- ODD GROWTH IN PROGRESS = Office-dependent data (ODD) growth activity must be completed before request can be accepted.

OK = Good. The message was accepted and the action completed (NOINIT only).

5. REFERENCES

Input Message(s):

```
SET:MINMODE-SM
```

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Output Message(s):

```
INIT:SM-LVL-SUM
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):
1800 INH & RCVRY CNTL

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INIT:SM-SPP

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a single process purge (SPP) of a named process in a selected switching module (SM). The named process ID (PID) may be either a system process or terminal process. Refer to the APP:PID-SM appendix for a list of the switching module system process PIDs.

WARNING: This message will purge the requested process. Any activity associated with this process currently in progress will be killed. This may result in other asserts or audits as the system cleans up.

2. FORMAT

```
INIT:SM=a,SPP,PID=b[-c];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number.

`b` = Process number to be purged. The process may be either a system process or a terminal process. If the PID refers to a terminal process, a uniqueness number must be included.

`c` = Uniqueness number of the specified terminal process PID (used only for a terminal process).

4. SYSTEM RESPONSE

`IP` = In progress. The message was accepted and the request is in progress.

`NG` = No good. The message was not accepted because:
- `INVALID PID` = An illegal value was specified for PID.
- `PID NOT ACTIVE` = The specified PID is no longer associated with an active process.
- `SM 'a' is not equipped` = The SM specified (`a`) does not exist.

5. REFERENCES

Output Message(s):

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```
INIT:SM-LVL-SUM
```

Input Appendix(es):

```
APP:PID-SM
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery*

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INIT:UC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administration module generic access package (GRASP) be informed that a working utility circuit has been installed so that GRASP will again accept trace and hardware breakpoint definitions, reset the utility circuit if an error occurred, or end the GRASP session.

2. FORMAT

```
INIT:UC[,END][,UCL];
```

3. EXPLANATION OF MESSAGE

`END` = End the GRASP session and cause GRASP to die if no traces or breakpoints are set. Using END with UCL will cause GRASP to die even if traces or breakpoints are set.

`UCL` = Perform the initialization unconditionally, even if no error has been detected.

4. SYSTEM RESPONSE

Refer to the APP:SYS-RESPONSE appendix for an explanation of general system responses.

`NG` = No good. Valid value(s):
- `STATE ERROR` = The circuit is already initialized, or a trace or breakpoint is defined when trying to end GRASP.
- `UC IS FUNCTIONAL` = No failure has been detected.
- `UC WOULD NOT INITIALIZE` = The circuit still would not respond. Hardware breakpoint and trace definitions will continue to be rejected.

`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

`?A` = Action field or command code contains an error. Valid value(s):
- `INVALID KEYWORD` = Not a valid action in a WHEN action list.

5. REFERENCES

Input Message(s):

`OP:UMEM`

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INIT:ULARP

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Initializes the *UNIX*® level automatic restart process (ULARP). This action restarts any ULARP-controlled process that is not executing. It will also start any *UNIX*® level process that has had a record added to the equipment configuration data base (ECD) and is not yet executing.

2. FORMAT

```
INIT:ULARP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. Indicates an attempt to initialize ULARP. Error information is output in the form of processor recovery messages and REPT:ULARP output messages.

`PF` = Printout follows. Followed by the INIT:ULARP output message.

5. REFERENCES

Input Message(s):

```
OP:ULARP-COM
OP:ULARP-PROC
```

Output Message(s):

```
INIT:ULARP
OP:ULARP-COM
OP:ULARP-PROC
REPT:ULARP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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INIT:UMEM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Specifies the definition of an administrative module (AM) generic access package (GRASP) trace to be set up. The trace enters the NEW state with the successful completion of the input message.

The AM must be equipped with a UN615 utility circuit pack in at least the active control unit (CU) to use this feature. The UN615 installs in slot 60-118. The equipment configuration database (ECD) entry for the UN615 should also be updated when the pack is installed. The form is "ucb". The key is "CU", "0" or "1" (depending on which CU), "UC", "0". Field 21 ("major_status") should be "OOS" and field 27 ("mv") should be "0x2".

2. FORMAT

```
INIT:UMEM[,{UID=a|PID=b}][,ADDR={c&&d|c[,L=e|
NL=f]}][,STORE=g][,STKADD=h[,STKSZ=i]][,STOP=FULL]
[[,COND=j][,j][,j]][:WORD];
```

3. EXPLANATION OF MESSAGE

`FULL` = The transfer trace will stop collecting data and will enter the STOPPED state when the memory is filled with data. Without this option, the trace will continue to collect data, overwriting the oldest data, until stopped by an INH:UMEM input message.

`WORD` = Interpact all addresses and lengths in terms of words. If this option is omitted, they are assumed to be byte values.

`a` = Utility ID number of the target process.

`b` = Process ID number of the target process.

`c` = Starting byte address of the range to which tracing will be restricted. The ADDR keyword cannot be used when STORE=FUNCPAR. Ending byte address of the range if NL option is used.

If `STORE=FUNCTION` or `STORE=DATAFUNC` is specified with an address range then the form of the range is restricted. The restriction is that the left most hex digits of the starting and ending addresses must be equal. All of the other hex digits in the starting address must be "0"'s and all of the other hex digits in the ending address must be "F"'s. Examples of valid ranges: 0x123000 - 0x123FFF, 0x1F07800 - 0x1F078FF.

`d` = Ending byte address of the range to which tracing will be restricted. When specifying `UID`, `TRANSFER`, `DATA`, or `TRANDATA` traces, the address range can be arbitrary. When specifying `FUNCTION`, `FUNCPAR`, or `DATAFUNC` traces, however, the starting and ending addresses must be of a form where the leftmost hex digits of both are equal, and the rightmost digits of the starting address are all "0" and the rightmost digits of the ending address are "F". For example, 0x123000 - 0x123FFF or 0x10000 - 0x1FFFF.

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e = Length of the range of addresses to which tracing will be restricted. The default is four bytes unless a range is explicitly stated.

f = Length of the range of addresses to which tracing will be restricted where the starting address is calculated as ADDR -f + 1.

g = Information to be stored. Valid value(s):

- DATA = Data accesses for the specified address or range of addresses will be stored.
- DATAFUNC = Both information for data history traces over a specified address range and function calls with parameters passed are stored. As with FUNCPAR, a stack start address and a stack size may be specified.
- FUNCPAR = Function calls and parameters passed for the function will be stored. A stack start address and a stack size may also be specified with this trace type. The ADDR keyword cannot be used when STORE=FUNCPAR.
- FUNCTION = Both function call and return instructions will be stored with the address of the instruction and the address branched to.
- TRANDATA = Information for both data history trace and transfer trace will be stored.
- TRANSFER = Both changes in utility IDs and branches will be stored. This is the default if the STORE option is not specified.
- UID = Store only changes in utility IDs will be stored. This gives a longer history but less detail.

h = The stack start address for the process being traced. This is an optional input that can only be specified if STORE=FUNCPAR or STORE=DATAFUNC. The default STKADD is H'6A0000.

Be aware that each sub-process within the processes of OKP, SMKP and RCKP has its own private stack.

i = The size of the user stack specified with the stack start address. The default STKSIZ is H'10000. If a stack address and stack size are specified, they must specify an address range as described in the previous section. For example, the default stack address is 0x6A0000 and stack size is 0x1000. This specifies an address range of 0x6A0000 through 0x6A0FFF. A function with parameters trace uses two triggers.

j = Match condition to inhibit a running trace. GRASP cannot trace across an initialization, nor control the dual access utility circuit in an off-line control unit (CU). Valid value(s):

- E = To match on external input using the AM backplane.
- M = To match on a maintenance reset function (MRF).
- S = To match on a stop-and-switch.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):

- STATE ERROR = A trace is already defined.
- UC ERR = The utility circuit is unavailable.

PF = Printout follows. Followed by the INIT:UMEM output message.

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RL = Retry later or wait for previous OP:UMEM to complete. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
ALW:UMEM
CLR:UMEM
INH:UMEM
OP:ST-PROC
OP:UMEM
OP:UTIL
```

Output Message(s):

```
INH:UMEM
INIT:UMEM
OP:UTIL
```

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36. LNUPD

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LNUPD:LN

Software Release: 5E15 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Initiates the updating of the software of all SS7 nodes or a single SS7 node.

2. FORMAT

```
LNUPD:LN={a-b | ALL}:[DEST=c];
```

3. EXPLANATION OF MESSAGE

`a` = The group number of the link node. The valid range is 00 to 63.

`b` = The member number of the link node. The valid range is 1 to 15.

`c` = The specified destination output class. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Followed by the LNUPD LN or the REPT LNUPD LN output messages.

`RL` = Request cannot be executed now due to unavailable system resources.

`?A` = Action Field contains an error.

`?D` = Data Field contains an error.

`?I` = Identification Field contains an error.

This input message results in the updating of the software of a single or all SS 7 nodes(s).

5. REFERENCES

Input Message(s):

```
OP:LNUPD
STOP:LNUPD
```

Output Message(s):

```
LNUPD:LN
OP:LNUPD
REPT:LNUPD
STOP:LNUPD
```

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Input Appendix(es):

```
APP:RANGES
```

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37. LOAD

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LOAD:ADDR

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a virtual address be loaded with specified data as an action associated with a breakpoint.

2. FORMAT

```
LOAD:ADDR=a[,OFF=b][,L=c][:WORD]:DATA,D=d;
```

3. EXPLANATION OF MESSAGE

`WORD` = Indication that addresses and lengths are to be interpreted in terms of words. If this option is omitted, addresses and lengths are assumed to be byte values.

`a` = The starting virtual address for the data in octal, hexadecimal, or decimal notation. Assumed to be a byte address unless the WORD option is used.

The address must be in a segment which is not write-protected. Note that text segments are usually write-protected.

`b` = Single offset or list of up to five offsets. Omission of the keywords implies no indirect addressing. Offsets are bytes unless the WORD option is used.

`c` = The length of the load, assumed to be bytes unless the WORD option is used. The default for an omitted or zero length is 1. The specified length must agree with the data as explained below.

`d` = One or more numbers representing data to be loaded. If more than one number is given, all but the last are assumed to represent four bytes of data. The last or only number is taken to represent the number of bytes of data (up to four) needed to make the data list correspond to the length '`c`'.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`RL` = Retry later. The system is in an overload condition.

`?I` = Syntax error. Valid value(s):
- `INCONSISTENT DATA (L + D)` = Length and amount of data specified do not agree.
- `MISSING KEYWORD` = Utility identification (UID) or process identification (PID) is required except in a WHEN action list.
- `RANGE ERROR (L)` = Length too long.

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5. REFERENCES

Input Message(s):

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
WHEN:PID
WHEN:UID
```

Output Message(s):

```
LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:UVAR
```

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LOAD:DFC-PUMP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Download the pumpcode to the small computer system interface (SCSI) disk file controller (DFC). The control of SCSI host adaptor (HA) DFC will be transferred from firmware to pumpcode after the pumpcode is successfully downloaded. The input message can also be used to request the administrative module (AM) disk driver to automatically perform the whole pump procedure.

2. FORMAT

```
[1]    LOAD:DFC a;PUMP [:FN "b" [,CHECKSUM]]!

[2]    LOAD:DFC a;PUMP :FN "b" ,FU!
```

3. EXPLANATION OF MESSAGE

`CHECKSUM` = When this option is used, the integrity of the pumpcode contained in the specified file will be verified; no pumpcode downloading will occur.

`FU` This option is normally used in a software update messages file. It says that if the DFC does not exist or if the DFC is not a UN373 or if the DFC is not active, this will successfully complete without doing anything to the DFC. This is done to minimize human intervention while making a change to a DFC pumpfile.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Full pathname that specifies the file containing pumpcode to be downloaded into SCSI HA DFC or to be checked for the integrity of its data. The specified file name will be ignored when the downloading is to be done automatically by the AM disk driver since the driver will use the information stored in the DFC's unit control block (UCB) record to build the pumpcode file name. The file specified in the UCB record must exist in the directory /dfc, and the file name derived from the UCB record has the format xyz, where x is the 4-alphanumeric characters packcode value (that is, u214) stored in the packcode field of the UCB, y is the 2-digit value stored in the issue field of the UCB, and y is the 2-digit value stored in the version field of the specified DFC's UCB. An example of a typical pumpcode file name is u21471; the pumpcode version implied by this filename is 7, the pumpcode issue is 1, and the packcode number is u214.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the LOAD:DFC-RAM output message.

5. REFERENCES

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Input Message(s):

```
LOAD:DFC-RAM
```

Output Message(s):

```
LOAD:DFC-PUMP
REPT:DFC-PUMP
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

(DISK FILE SYSTEM ACCESS)

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LOAD:DFC-RAM

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Load a specified pumpcode file into the SCSI disk file controller's (DFC's) random access memory (RAM) area. The message can also be used to verify the integrity of a pump file.

2. FORMAT

```
LOAD:DFC=a:RAM:FN="b"[,CHECKSUM];
```

3. EXPLANATION OF MESSAGE

`CHECKSUM` = When this option is used the integrity of the pumpcode contained in the specified file will be verified; no downloading will occur.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Full pathname that specifies the file containing pumpcode to be downloaded into SCSI DFC's RAM.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the LOAD:DFC output message.

5. REFERENCES

Input Message(s):

`LOAD:DFC-PUMP`

Output Message(s):

`LOAD:DFC-RAM`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

(DISK FILE SYSTEM ACCESS)

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LOAD:LIB

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Requests that the existence of the specified library program be verified and loads the scratch memory area of the listed switching modules (SMs) with the library program. This input message will not complete if a program is running in an affected SM, or if the specified SM is currently loaded or running under another team's control. In the administrative module (AM), it will not complete if the specified team has a program already running.

2. FORMAT

```
LOAD:LIB:TEAM=a[,AM][{,SM=c|,SM=d&&e}],PROG=b;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = The team number to which this input message applies. This number is used so that more than one person may test at the same time, using different team numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The name of the library program desired. The program must exist on the disk in two or three forms. There must be a progname.info file which contains the generic compatibility, a progname.im if it is to be used in the SM, and a progname.cp if it is to be used in the AM.

`c` = A list of SM numbers to which this message should be directed. The team specified must have a library program running in the SM(s) listed. A range could be used instead, as indicated.

`d` = Lower limit of a range of SM numbers.

`e` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

`PF` = Printout follows. Message has been sent to the SMs/AM or team specified.

5. REFERENCES

Output Message(s):

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```
LOAD:LIB
```

Input Appendix(es):

```
APP:RANGES
```

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LOAD:MHD-FIRMWARE

Software Release: 5E15 and later
Command Group: FHADM
Application: 3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the executable microcode and/or control information be loaded into the control memory of a small computer system interface (SCSI) moving head disk (MHD). The downloaded code will be effective after successful completion of this message.

WARNING: This input message will format the MHD. All existing data on the disk drive will be destroyed.

2. FORMAT

```
LOAD:MHD=a:FIRMWARE,FN="b";
```

3. EXPLANATION OF MESSAGE

`a` = MHD member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Full pathname of the firmware data specification file.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the LOAD:MHD-FIRMWARE output message.

5. REFERENCES

Output Message(s):

`LOAD:MHD-FIRMWARE`

Input Appendix(es):

`APP:RANGES`

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LOAD:MHD

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Loads new defect location data on to a moving head disk (MHD). The data is used to map around defective areas on the disk media.

For an SMD MHD, the defect specification file data replaces the "Manufacturer's" defect table (MFGR).

For an SCSI MHD, the defect specification file data is added to the "Combined" defect table (COMB).

Note: For SCSI disks, after new defect blocks are loaded, all the previous information about the bad blocks (defects) become invalid. For example, bad logical block number 3 is not physically the same block after being loaded. It is now a good block number 3. Therefore, only new defect(s) detected since the previous LOAD:MHD message should be included in the specification file used for loading new defects into the "Combined" defect table.

WARNING: Incorrect use of this message can degrade system performance and result in disk data mutilation. This message should not be used without expert technical assistance.

2. FORMAT

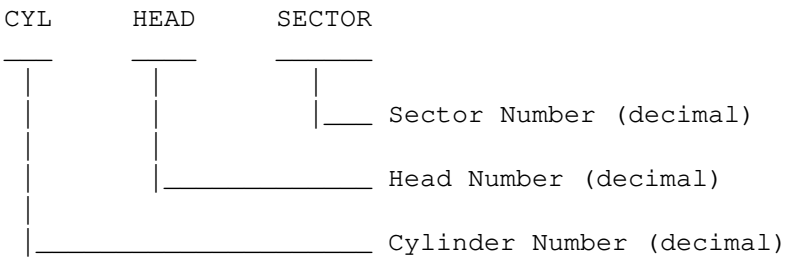
```
LOAD:MHD=a:DEFECT:DATA,FN="b";
```

3. EXPLANATION OF MESSAGE

`a` = MHD member number.

`b` = Full pathname of the defect specification file.

- For SMD disks, the file contains one line for each defect. The format of each line is as follows:



The entries must be created in increasing cylinder number order, and in increasing head number order when on the same cylinder. The sector number

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is optional.

- For SCSI disks, the file contains one line for each disk block number to be reassigned. The entries must be created in increasing block order number. All the specified block numbers will be re-assigned by the disk-drive's embedded controller.
- An empty (zero length) specification file results in an empty defect table being written to the disk.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the LOAD:MHD-DEFECT output message.

5. REFERENCES

Input Message(s):

```
DUMP:MHD-DEFECT
INIT:MHD
```

Output Message(s):

```
LOAD:MHD-DEFECT
```

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LOAD:PMEM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Loads an administrative module (AM) physical byte address with specified data as an immediate operation or as a generic access package (GRASP) breakpoint action.

WARNING: This message overwrites data in the memory of the AM. It should not be used without expert technical assistance.

2. FORMAT

```
LOAD:PMEM=a[,L=b][:WORD]:DATA,D=c{!|;}
```

3. EXPLANATION OF MESSAGE

`WORD` = Indication that addresses and lengths are to be interpreted in terms of words. If this option is omitted, addresses and lengths are assumed to be byte values.

`a` = Starting physical byte address of the location in main memory where the load is to be done.

`b` = The length of the load, assumed to be bytes unless the WORD option is used. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The length must be a multiple of 4 and must agree with the amount of data.

`c` = One or more numbers representing data to be loaded. If more than one number is given, each is assumed to represent four bytes of data.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`PF` = Printout follows. Followed by the LOAD:PMEM output message.

`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

`?I` = Syntax error. Valid value(s):
- `INCONSISTENT DATA (L + D)` Length and amount of data specified do not agree.
- `RANGE ERROR (L)` Length too long.

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5. REFERENCES

Input Message(s):

```
DUMP:PMEM
LOAD:ADDR
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Message(s):

```
LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:UVAR
```

Input Appendix(es):

```
APP:RANGES
```

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LOAD:REG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Loads an administrative module (AM) register with specified data as a breakpoint action.

2. FORMAT

```
LOAD:REG=a[,OFF=b][,L=c][:WORD]:DATA,D=d;
```

3. EXPLANATION OF MESSAGE

`WORD` = Indicates that lengths are to be interpreted in terms of words. If this option is omitted, lengths are assumed to be byte values.

`a` = The name of the register to be written. Valid value(s):

- `AP` = Argument pointer.
- `ATBBGR` = Register used by the ATB miss routine to temporarily store the bi-directional gating register (BGR).
- `ATBPSW` = Register used by the ATB miss routine to temporarily store the program status word (PSW) register.
- `ATBQ` = Register used by the ATB miss routine to temporarily store the 'q' register.
- `ATBSAR` = Register used by the address translation buffer (ATB) miss routine to temporarily store the store address register (SAR) contents.
- `ATBSCR` = Register used by the ATB miss routine to temporarily store the store control register (SCR) contents.
- `ATBSDR` = Register used by the ATB miss routing to temporarily store the store data register (SDR) content.
- `BGR` = Bi-directional gating register.
- `CAR` = Channel address register.
- `CDR` = Channel data register.
- `ERC` = Error register (ER) clear.
- `FP` = Frame pointer.
- `HG` = Reserved register HG.
- `HSR` = Hardware status register.
- `HSRBGC` = Bi-directional gating control bits of the hardware status register (HSR).
- `IM` = Interrupt mask register IM.
- `ISC` = IS (interrupt source) register clear.
- `ISS` = Interrupt source (IS) register set.
- `PA` = Program address register.
- `PPR` = Pulse point register.
- `PSW` = Program status word.
- `R0` = General register R0.
- `R1` = General register R1.
- `R2` = General register R2.
- `R3` = General register R3.

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`R4`	= General register R4.
`R5`	= General register R5.
`R6`	= General register R6.
`R7`	= General register R7.
`R8`	= General register R8.
`R9`	= General register R9.
`R10`	= General register R10.
`R11`	= General register R11.
`RNULL`	= Null register.
`RTC`	= Real time clock.
`SBR0`	= Segment base register SBR0.
`SBR1`	= Segment base register SBR1.
`SBR2`	= Segment base register SBR2.
`SBR3`	= Segment base register SBR3.
`SBR4`	= Segment base register SBR4.
`SBR5`	= Segment base register SBR5.
`SBR6`	= Segment base register SBR6.
`SBR7`	= Segment base register SBR7.
`SCRATCH0`	= JE group temp subgroup scratch register SCRATCH0.
`SCRATCH1`	= JE group temp subgroup scratch register SCRATCH1.
`SDR`	= Store data register.
`SP`	= Stack pointer.
`SSRC`	= System status register (SSR) clear.
`SSRS`	= SSR set.
`SYSBASE`	= Beginning address of *UNIX*® RTR Operating System tab.
`T0`	= JE group temp subgroup scratch register T0.
`T1`	= JE group temp subgroup scratch register T1.
`T2`	= JE group temp subgroup scratch register T2.
`T3`	= JE group temp subgroup scratch register T3.
`T4`	= JE group temp subgroup scratch register T4.
`T5`	= JE group temp subgroup scratch register T5.
`T6`	= JE group temp subgroup scratch register T6.
`T7`	= JE group temp subgroup scratch register T7.
`TIMERS`	= Timing circuit.
`TOPIS`	= Interrupt stack pointer.
`UINT0`	= Error microinterrupt hander register UINT0.
`UINT1`	= Error microinterrupt hander register UINT1.
`UINT2`	= Error microinterrupt hander register UINT2.
`UINT3`	= Error microinterrupt hander register UINT3.
`UINTER`	= Shadow error register (uint_er) loaded during an error microinterrupt.

`b` = Single offset or a list of up to five offsets. Omission of the keywords implies no indirect addressing. Offsets are bytes unless the WORD option is used.

`c` = The length of the load, assumed to be bytes unless the WORD option is used. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The default for an omitted or zero length is 4. The specified length must agree with the data as explained below.

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`d` = The data to be loaded. It is taken to represent the number of bytes of data (up to 4) needed to make the data list correspond to the length '`c`'.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`NG` = No good. Valid value(s):
- `BAD REG NAME`

`PF` = Printout follows. Followed by the LOAD:REG output message.

`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

`?I` = Syntax error. Valid value(s):
- `INCONSISTENT DATA (L + D)` = Length and amount of data specified do not agree.
- `RANGE ERROR (L)` = Length too long.

5. REFERENCES

Input Message(s):

`COPY:ADDR`
`COPY:PID`
`COPY:REG`
`COPY:UID`
`COPY:UVAR`
`OP:UMEM`
`WHEN:PID`
`WHEN:UID`

Output Message(s):

`LOAD:ADDR`
`LOAD:PMEM`
`LOAD:REG`
`LOAD:UVAR`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-210 *Routing Operations and Maintenance*

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LOAD:RUTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a load of the contents of the specified address at the given common network interface (CNI) ring node with the given data.

Currently the maximum data size allowed for loading is 128 bytes or 32 four-byte words. There must be a one-to-one correspondence between the length of the data to be written and the data provided in 'e'. If there are three bytes of data to be written, there must be three data entries. Similarly if there are five words to be written, there must be five data entries specified.

WARNING: Incorrect use of this input message may interrupt operation of a node on the ring or the whole ring.

2. FORMAT

```
LOAD:RUTIL=a-b,AP:ADDR=c,{L|NL}=d[:WORD]:D=e-...;
```

3. EXPLANATION OF MESSAGE

`WORD` = Length of the load in bytes; if WORD is specified, then 'd' is the number of four-byte words to load.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Start address of the load in hexadecimal.

`d` = Length of the load in bytes; if WORD is specified, then 'd' is the number of four-byte words to load. If L is given, then '`c`' is taken to be the beginning address to dump. If NL is given, then '`c`' is the end address of the dump; the start address is calculated by end address minus total number of bytes to dump.

`e` = One or more data items to be loaded in hexadecimal; a dash separated list may be specified.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the LOAD:RUTIL output message.

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5. REFERENCES

Input Message(s):

```
ALW:RUTIL
CLR:RUTIL
DUMP:RUTIL
INH:RUTIL
OP:RUTIL
WHEN:RUTIL
```

Output Message(s):

```
ALW:RUTIL
CLR:RUTIL
DUMP:RUTIL
INH:RUTIL
LOAD:RUTIL
OP:RUTIL
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP).

This message may be used together with any of the other CMP generic utility input messages. Refer to the References section of this message. If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:CMP=a,{MATE|PRIM},{ADDR=b|GVAR="c"|SYMIDX=d}[,L=e]
[,SIZE=f][,VAL=g[-g...]{!|;}
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby CMP.

`PRIM` = Execute this input message on the active CMP.

`a` = CMP number.

`b` = Address to be loaded.

`c` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Total length in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.

`f` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`g` = Values to be loaded (maximum of 20 listed values).

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4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
LOAD:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-CMPMSG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP) message handler (CMPMSG).

> **WARNING:** The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
LOAD:UT:CMPMSG=a-b,{ADDR=c|GVAR="d"|SYMIDX=e},L=f,SIZE=g,
[VAL=h[-h...]];
```

3. EXPLANATION OF MESSAGE

`a` = Message switch side.

`b` = CMPMSG number.

`c` = Starting address to be loaded in memory.

`d` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Length in bytes of all values to be loaded (default is 1). Length divided by size must be a whole number from 1 - 20.

`g` = Size, in bytes, of each value to be loaded.

`h` = Value(s) to be loaded (maximum of 20 listed values). Default is 0.

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-CMPMSG
DUMP:UT-SYMID
```

Output Message(s):

```
LOAD:UT-CMPMSG
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-DNUS

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified digital networking unit - SONET (DNU-S).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:DNUS=a-b[,MATE],{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g]
[,VAL=h[-h]...[-h]]{!|;}
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby DNUS. The default is the active DNUS.

`a` = Switching module (SM) number.

`b` = DNU-S number.

`c` = Physical Address of the location to start the LOAD.

`d` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Total length in bytes of all values to be loaded (1 - 8, default is 1). Length divided by size (variable '`g`') must be a whole number.

`g` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`h` = Values to be loaded (maximum of 8 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
DUMP:UT-DNUS
DUMP:UT-SYMID
EXC:UT-DNUS
```

Output Message(s):

```
LOAD:UT-DNUS
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-FPC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified foundation peripheral controller (FPC).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
LOAD:UT;FPC=a,{ADDR=b|I0=c|GVAR="d"|SYMIDX=e},L=f,SIZE=g,
VAL=h[-h...-h];
```

3. EXPLANATION OF MESSAGE

`a` = FPC number.

`b` = Starting address to be loaded in memory.

`c` = The number of the I/0 port to be loaded.

`d` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Total length in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.

`g` = Size, in bytes, of each value to be loaded. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When loading I/0 port, the size must be 1.

`h` = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-FPC
DUMP:UT-SYMID
EXC:UT-FPC
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-IDCU

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:IDCU=a-b[,MATE],{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g]
[,VAL=h[-h]...[-h]];
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby IDCU. The default is the active IDCU.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`c` = Address to be loaded. The address range from h'30000332 to h'300003ff is the unified control interface (UCI) register area.

`d` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Total length in bytes of all values to be loaded (default is 1). Length divided by size (variable '`g`') must be a whole number.

Note: The dumping and loading of the UCI register area cannot overlap with the remainder of the IDCU address range (refer to variable '`c`').

`g` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`h` = Values to be loaded (maximum of 8 listed values).

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4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-IDCU
DUMP:UT-SYMID
EXC:UT-IDCU
```

Output Message(s):

```
LOAD:UT-IDCU
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-IDCULSI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU) loop side interface (LSI).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:IDCULSI=a-b-c[,MATE],{ADDR=d|GVAR="e"|SYMIDX=f}[,L=g]
[,SIZE=h][,VAL=i[-i]...[-i]]{!|;}
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby LSI. The default is to use the active LSI.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`c` = LSI number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`d` = Address to be loaded. The address range from 0x4400 to 0x44ff is the unified control interface (UCI) register area.

`e` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`f`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`f` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`g` = Total length in bytes of all values to be loaded (1 - 8, default is 1). Length divided by size (variable '`h`') must be a whole number.

Note: The dumping and loading of the UCI register area cannot overlap with the remainder of the IDCU loop side interface (LSI) address range (refer to variable '`d`').

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`h` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`i` = Values to be loaded (maximum of 8 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-IDCULSI
DUMP:UT-SYMID
EXC:UT-IDCULSI
```

Output Message(s):

```
LOAD:UT-IDCULSI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-ISLUCC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified integrated services line unit common controller (ISLUCC).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:ISLUCC=a-b[,MATE],{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g]
[,VAL=h[-h]...[-h]];
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby ISLUCC. The default is the active ISLUCC.

`a` = Switching module (SM) number.

`b` = Line unit number.

`c` = Address to be loaded.

`d` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Total length in bytes of all values to be loaded (1 - 8, default is 1). Length divided by size (variable '`g`') must be a whole number from 1-8. The dumping and loading of the unified control interface (UCI) register area cannot overlap with the remainder of the common controller (CC) address range (refer to variable '`c`').

`g` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`h` = Values to be loaded (maximum of 8 listed values).

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-ISLUCC
DUMP:UT-SYMID
EXC:UT-ISLUCC
```

Output Message(s):

```
LOAD:UT-ISLUCC
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-MCTSI-MH

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified message handler (MH) unit.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:MCTSI=a-b,MH[,MATE]{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f]
[,SIZE=g][,VAL=h[-h...]]{!|;}
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the mate MH's memory. Default is the active MH's memory.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Message handler unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Address to be loaded.

`d` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Total length in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.

`g` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`h` = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-MCTSI-MH
DUMP:UT-SYMID
EXC:UT-MCTSI-MH
```

Output Message(s):

```
LOAD:UT-MCTSI-MH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified peripheral interface (PI) unit.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:MCTSI=a-b,PI,{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g]
[,VAL=h[-h]...[-h]];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Address to be loaded.

`d` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Total length in bytes of all values to be loaded (default is 1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Length divided by size should be a whole number from 1-20.

`g` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`h` = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

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5. REFERENCES

Input Message(s):

```
DUMP:UT-MCTSI-PI
DUMP:UT-SYMID
EXC:UT-MCTSI-PI
```

Output Message(s):

```
LOAD:UT-MCTSI-PI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-MMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified module message processor (MMP).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
LOAD:UT:MMP=a-b,{ADDR=c|I0=d|GVAR="e"|SYMIDX=f}[,L=g][,SIZE=h]
[,VAL=i[-i...-i]];
```

3. EXPLANATION OF MESSAGE

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MMP number.

`c` = Starting address to be loaded.

`d` = The number of the input/output (I/0) port to be loaded.

`e` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`f`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`f` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`g` = Length in bytes of all values to be loaded. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Length divided by size should be a whole number from 1-20.

`h` = Size (number of bytes) of each value to be loaded. Maximum is 4.

`i` = Values to be loaded (maximum of 20 listed values).

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4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
LOAD:UT-MMP
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-MSGS

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified message switch (MSGS).

NOTE: This command is valid only on MSGS processors of communication Model 3.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:MSGS=a,{AP|IP},{ADDR=b|GVAR="c"|SYMIDX=d}[,L=e]
[,SIZE=f][,VAL=g[-g...]];
```

3. EXPLANATION OF MESSAGE

`AP` = Load the values in the MSGS application processor's memory.

`IP` = Load the values in the MSGS interface processor's memory.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Starting address to be loaded in memory.

`c` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this command using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input command.

`d` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

`e` = Length in bytes of all values to be loaded (1 - 80, default is 1). Length divided by size must be a whole number from 1 - 20.

`f` = Size, in bytes (1-4), of each value to be loaded. Default is 1.

`g` = Value(s) to be loaded (maximum of 20 listed values). Default is 0.

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
LOAD:UT-MSGS
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):

System Maintenance Requirements and Tools

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LOAD:UT-OFI

Software Release: 5E61 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified optical facility interface (OFI).

This message may be used together with any of the other OFI generic utility input messages. Refer to the input messages listed in the REFERENCES section.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:OFI=a-b-c-d,{ADDR=e|GVAR="f"|SYMIDX=g}[,L=h]. . .
. . .[,SIZE=i][,VAL=j[-j...]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Side number.

`e` = Address to be loaded.

`f` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`h` = Total length (L) in bytes of all values to be loaded. Default is 1, maximum is 8. Length divided by size must be a whole number.

`i` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

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j = Values to be loaded (maximum of 8 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-OFI
DUMP:UT-SYMID
EXC:UT-OFI
```

Output Message(s):

```
LOAD:UT-OFI
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-ONTC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified office network and timing complex processor (ONTC).

NOTE: This command is valid only on ONTC processors of communication Model 3.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:ONTC=a,{AP|IP},{ADDR=b|GVAR="c"|SYMIDX=d}[,L=e]
[,SIZE=f][,VAL=g[-g...]];
```

3. EXPLANATION OF MESSAGE

`AP` = Load the values in the ONTC application processor's memory.

`IP` = Load the values in the ONTC interface processor's memory.

`a` = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Starting address to be loaded in memory.

`c` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this command using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input command.

`d` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

`e` = Length in bytes of all values to be loaded (1 - 80, default is 1). Length divided by size must be a whole number from 1 - 20.

`f` = Size, in bytes (1-4), of each value to be loaded. Default is 1.

`g` = Value(s) to be loaded (maximum of 20 listed values). Default is 0.

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4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
LOAD:UT-ONTC
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):

System Maintenance Requirements and Tools

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LOAD:UT-PPC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified pump peripheral controller (PPC).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
LOAD:UT:PPC=a,{ADDR=b|I0=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g]
[,VAL=h[-h...-h]];
```

3. EXPLANATION OF MESSAGE

`a` = PPC number.

`b` = Starting address to be loaded.

`c` = The number of the input/output (I/0) port to be loaded.

`d` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Total length in bytes of all values to be loaded. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Length divided by size should be a whole number from 1-20.

`g` = Size (number of bytes) of each value to be loaded. Maximum is 4.

`h` = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
LOAD:UT-PPC
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH).

Note: This input message is only supported on PSUPHs of the PH3/PH4 and later hardware types (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:PSUPH=a-b-c-d,{ADDR=e|GVAR="f"|SYMIDX=g}[,L=h]
[,SIZE=i][,VAL=j[-j...]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number (always 0).

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Address (ADDR) to be loaded.

`f` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the

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DUMP:UT-SYMID input message.

`g` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`h` = Total length (L) in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.

`i` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`j` = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
LOAD:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:PSUPH=a-b-c-d,{ADDR=e|GVAR="f"|SYMIDX=g}[,L=h]
[,SIZE=i][,VAL=j[-j...]]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Address (ADDR) to be loaded.

`f` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`h` = Total length (L) in bytes of all values to be loaded. Default is 1, maximum is 80. Length

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divided by size must be a whole number from 1-20.

`i` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`j` = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
LOAD:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-QGP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified quad-link packet switch (QLPS) gateway processor (QGP).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
LOAD:UT:QGP=a-b,{AP|MSGH},{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f]
[,SIZE=g][,VAL=h[-h...]];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Starting address to be loaded in memory.

`d` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Length in bytes of all values to be loaded (1 - 80, default is 1). Length divided by size must be a whole number from 1 - 20.

`g` = Size, in bytes (1-4), of each value to be loaded. Default is 1.

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h = Value(s) to be loaded (maximum of 20 listed values). Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
```

Output Message(s):

```
LOAD:UT-QGP
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-SM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified switching module (SM).

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

During patch space recovery operation, UT will modify its normal behavior to force non-mate operations to write only the local memory even if both MCTSIs are in service. Therefore, in order to have operations happen on both sides, the user needs to run the command twice, first for the active side, then for the mate side.

2. FORMAT

```
LOAD:UT:SM=a[,MATE],{ADDR=b|GVAR="c"|SYMIDX=d}[,L=e][,SIZE=f]. . .
 . . .[,VAL=g[-g]...[-g]]{!|;}
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the mate SM's memory. Default is the active SM's memory and mate memory unless it is during patch space recovery operation.

`a` = SM number.

`b` = Address to be loaded.

`c` = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Total length in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size should be a whole number from 1-20.

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`f` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`g` = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
OP:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
LOAD:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-TMS

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified time multiplex switch (TMS).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

```
LOAD:UT:TMS=a[,L=b][,CMDS=c][,VAL=d];
```

3. EXPLANATION OF MESSAGE

`a` = TMS number.

`b` = Total length in bytes of all values to be loaded. Default is 5, maximum is 80.

`c` = Number of requests in the message. Default is 1, maximum is 16.

`d` = Values to be loaded (maximum of 20 listed values). Default is 0. Multiple values (`VAL=h'1234-h'5678`...) can be entered.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual. Note that the output is in a DUMP format, even though the input request was a LOAD. This is due to the nature of the interface to the TMS.

5. REFERENCES

Input Message(s):

```
LOAD:UT-TMS
```

Output Message(s):

```
DUMP:UT-TMS
```

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Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UT-TMUX

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
LOAD:UT:TMUX=a-b-c-d,{ADDR=e|GVAR="f"|SYMIDX=g}[,L=h]
[,SIZE=i][,VAL=j[-j]...[-j]]{!|;}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = DNU-S number.

`c` = Data group number.

`d` = TMUX number.

`e` = Physical Address of the location to start the LOAD.

`f` = The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`h` = Total length in bytes of all values to be loaded (1 - 8, default is 1). Length divided by size (variable '`i`') must be a whole number.

`i` = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

`j` = Values to be loaded (maximum of 8 listed values).

4. SYSTEM RESPONSE

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Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
DUMP:UT-SYMID
DUMP:UT-TMUX
EXC:UT-TMUX
```

Output Message(s):

```
LOAD:UT-TMUX
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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LOAD:UVAR

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Loads administrative module (AM) generic access package (GRASP) utility variable with specified data as an immediate operation or as an action associated with a breakpoint.

2. FORMAT

```
LOAD:UVAR=a[,L=b][:WORD],D=c;
```

3. EXPLANATION OF MESSAGE

`WORD` = Indication that addresses and lengths are to be interpreted in terms of words. If this option is omitted, addresses and lengths are assumed to be byte values.

`a` = Specifies a GRASP utility variable in decimal. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Utility variable values are reset to 0 at the end of every debugging session.

`b` = The length of the load, assumed to be bytes unless the `WORD` option is used. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The default for an omitted or zero length is 4. The specified length must agree with the data as explained below.

`c` = The data to be loaded. It is taken to represent the number of bytes of data (up to 4) needed to make the data list correspond to the length '`b`'.

4. SYSTEM RESPONSE

`IP` = In progress. The message has been added to the WHEN action list.

`PF` = Printout follows. Followed by a LOAD:UVAR output message.

`RL` = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

`?I` = Syntax error. Valid value(s):
- `INCONSISTENT DATA (L + D)` = Length and amount of data specified do not agree.
- `RANGE ERROR (L)` = Length too long.
- `RANGE ERROR (UVAR)` = Invalid utility variable was specified.

5. REFERENCES

Input Message(s):

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```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Message(s):

```
LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:UVAR
```

Input Appendix(es):

```
APP:RANGES
```

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38. MON

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MON:SLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5, CNI
Type: Input

1. PURPOSE

Requests that the link monitor be turned on or off. This message may also be used to determine the status of the monitor for the specified link(s). When the monitor is on, events associated with signaling links will trigger reports that are not normally output. Turning the monitor off inhibits new events from generating output. Event masks are available for each link. The event mask is used to describe the link related stimuli for which output is desired. There is also a system wide mask. Events can be monitored either on a single link or on all links.

Format 1 starts the link monitor. Either a single link (per link based messages) or a single node (per node based messages) or "ALL" links or nodes may be specified.

Format 2 stops the link monitor for the specified link or node or "ALL" links or nodes.

Format 3 is a request for the status of either a specific link or node or the system wide, "ALL", mask.

2. FORMAT

```
[1]    MON:SLK=[a-b]:ON[c];

[2]    MON:SLK=[a-b|ALL]:OFF;

[3]    MON:SLK=[a-b|ALL]:STATUS;
```

3. EXPLANATION OF MESSAGE

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Events mask. A default value of X'cde7f, everything except TFXs, will be used if no value is specified with the request. Event masks for more specific needs may be formed by "OR-ing" values. Valid value(s):

`X'00001`	= Ring node events.
`X'00002`	= CCS6 link failure events.
`X'00004`	= CCS7 link failure events.
`X'00008`	= CCS6 link restoration events.
`X'00010`	= CCS7 link restoration events.
`X'00020`	= CCS6 network messages (except TFx).
`X'00040`	= CCS7 network messages (except TFx).
`X'00080`	= CCS6 TFx events.
`X'00100`	= CCS7 TFx events.
`X'00200`	= Self loop link detection.
`X'00400`	= Manual out-of-service events.

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X'00800	= Test and audit events.
X'08000	= DLN user response events.
X'10000	= Internal link state changes.
X'20000	= LSSU link OOS reports.
X'40000	= Changeover events.
X'80000	= Change back events.

As a result of the message the link monitor function as requested is set. OFF turns the monitor off, STATUS will report whether the monitor is currently ON or OFF, and ON will turn on the monitor. When monitors are turned on, administrative module (AM) stimuli for links or nodes, and/or internal state changes will be reported. This may cause large amounts of output, therefore some caution should be exercised when requesting this feature.

Refer to the "Link Monitor Masks With Their Events" exhibit in the APP:CNI appendix in the Appendixes section of the Output Messages manual for which stimuli are associated with the above mask values.

4. SYSTEM RESPONSE

PF	= Printout follows.

5. REFERENCES

Output Message(s):

MON:SLK
REPT:MON-SLK

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:CNI

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI RING STATUS PAGE)
1521 (SIGNALING LINK SUMMARY PAGE)
1522 (SIGNALING LINK PAGE)

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MON:TRUNK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the specified trunk group marked with stop-go signaling be monitored. The members of the trunk group become candidates for being held off-hook and out of service when a stop-go signaling failure occurs. The connection between the switch and the far-end office is held off-hook for the user to determine the nature of the failure in the far-end office.

2. FORMAT

```
MON:TRUNK:TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Request accepted. Followed by the MON:TRUNK output message.

5. REFERENCES

Input Message(s):

```
CLR:TRUNK
OP:TRUNK
```

Output Message(s):

```
MON:TRUNK
```

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39. OP:A

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OP:ABD

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Provides a list of all available alternate boot disk units on the switch. Information within the list will identify whether or not the unit may be used as a boot disk and if so, the date when the unit was last updated. An optional format allows the craft to obtain this information for a specific unit.

Note: Only data from the primary partitions is used to determine if a unit is a valid boot disk. No checking is done on the backup partitions.

2. FORMAT

```
OP:ABD[a]!
```

3. EXPLANATION OF MESSAGE

`a` = Unit number Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for additional information.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ABD output message.

5. REFERENCES

Output Message(s):

`OP:ABD`

Input Appendix(es):

`APP:MEM-NUM-UNIT`

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OP:ACCH

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Lists a history over the immediate previous two hours of attempts per circuit per hour (ACH) and connections per circuit per hour (CCH) taken every 5 minutes for a given trunk group displayed in the TRUNK block of the defense switched network (DSN) network management (NM) exception page. This teletypewriter (TTY) message is valid only for DSN switches.

2. FORMAT

```
OP:ACCH,TG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group name.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `TG UNASSIGNED` = The trunk group is not on the schedule or any display box.

`PF` = Printout follows. Followed by the OP:ACCH output message.

`RL` = Retry later. May also include:
- `NO DATA` = No ACH/CCH data is yet collected for this trunk group.

5. REFERENCES

Input Message(s):

```
ASGN:DPSCH
CLR:NMSCH
CLR:TRKDP
```

Output Message(s):

```
OP:ACCH
```

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OP:ACG

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a list of up to 64 automatic call gapping (ACG) controls for the specified application, starting at the given control identifier. If the control identifier is not given, the default control identifier zero will be used as the starting point of the output controls.

WARNING: Requesting this message may cause a large amount of data to be printed on the receive-only printer (ROP) and it may degrade other call processing events. This message should not be used during high traffic time.

2. FORMAT

```
OP:ACG,a[,CID=b][,GSM=c];
```

3. EXPLANATION OF MESSAGE

`a` = Application type. Valid value(s):
- `ASP` = Advanced services platform (ASP) release 0.1 application.
- `NS800` = Number services (NS) 800 application.

`b` = Control identifier. Range is 0 to 511, depending on available feature set. The default is zero.

`c` = Processor from which to access the ACG list. Valid value(s) 1 to 192 for a GSM, or 0 to signify the AM/DLN. The default is the AM/DLN, or the GSM of a VCDX office.

4. SYSTEM RESPONSE

`NG` = No Good. May also include:
- `INVALID GSM` = The input message requested an SM that is not a GSM and has no ACG list.
- `NO GSM` = For a VCDX office, a GSM could not be found.

`PF` = Printout follows. Followed by an OP:ACG output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

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5. REFERENCES

Output Message(s):

OP:ACG

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OP:ACSR

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the status of one or all automatic customer station rearrangement (ACSR) requests in the ACSR queue be printed.

2. FORMAT

```
OP:ACSR,{PDN=a,ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Print the status of all ACSR requests.

`a` = Primary directory number (PDN). The PDN value may be a 7 or 10 digit directory number (DN). If the NXX exists in more than one area code (such as, NPA), a 10 digit DN must be entered.

4. SYSTEM RESPONSE

`PF` = Printout follows. An OP:ACSR output message will follow.

5. REFERENCES

Input Message(s):

```
DEL:ACSR
```

Output Message(s):

```
DEL:ACSR
OP:ACSR
```

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OP:ACT

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Provides a list of all currently active administrative module (AM) hardware units. An optional format provides a list of all active units of a particular type.

2. FORMAT

```
OP:ACT[:DATA,{a[=b][,c=d]}];
```

3. EXPLANATION OF MESSAGE

`a` = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of this manual.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of this manual.

`c` = Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of this manual.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of this manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by OP:ACT output message.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
```

Output Message(s):

```
OP:ACT
OP:CFGSTAT
```

Input Appendix(es):

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```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

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OP:AFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests translation information for an *AUTOPLEX®* mobile phone service (AMPS) facility, from AMPS facility identifier to its external facility circuit identifier and vice-versa.

For AMPS facility identifier to external facility circuit translation, the output will be the external facility circuit identifier.

For external facility circuit to AMPS facility identifier translation, the output will be the AMPS facility identifier.

2. FORMAT

```
OP:AFAC,a;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

`a` = Facility type. Valid value(s):
`AFACID=b` = AMPS facility identifier.
`DS1=c-m-n-o-p-k-l` = OIU facility circuit.
`DS1SFAC=c-g-h-i-j-k-l` = DNUS facility circuit.
`FAC=c-d-e-f` = DLTU facility circuit.

`b` = AMPS facility identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = FAC number. The FAC number is the T1 facility number on a DFI (0-1).

`g` = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix

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in the Appendixes section of the Input Messages manual.

`j` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the OP:AFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`OP:AFAC`

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OP:ALE-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the status of automatic line evaluation (ALE) system control parameters and resource usage.

The control parameters are grouped into three classes.

Automatic ALE Session Output Controls The parameters LEVEL1, LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session. The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.

Switching Module (SM) Controls The SM parameters control the behavior of the level 1 performance monitoring and protocol error record (PER) generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER. If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for all the U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL. Status requests that immediately follow the inhibiting (INH:ALE) of integrated services digital network (ISDN) protocol channels may give an erroneous indication that level 1 performance monitoring has been inhibited. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes. Status requests that immediately follow the allowing (ALW:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring is operational. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes. If the PER generation parameter is inhibited, then no PERs will be recorded for any ISDN protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel.

Line/Trunk Controls Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks. The level 1 control parameters consist of an overall level 1 inhibit, hourly alert generation, daily alert generation, interval report generation, and daily report generation. If the overall level 1 inhibit is active, then all level 1 performance monitoring activities for the U-interface are disabled. If the hourly alert generation inhibit is active, then the reporting of hourly alerts to the ROP will be suppressed for the interface. If the daily alert generation inhibit is active, then the reporting of daily alerts to the ROP will be suppressed for the interface. If the interval report generation inhibit is active, then the interface will not contribute to the interval report. If the daily report generation inhibit is active, then the interface will not contribute to the daily report. One or more of the level 1 controls may be active. This information is applicable to U-interface DSLs. Status requests that immediately follow the inhibiting (INH:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring has been

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inhibited. The actual counting of level 1 errored seconds, severely errored seconds, and CRC BEs, may not be inhibited for a period of up to 5 minutes. Status requests that immediately follow the allowing (ALW:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring is operational. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes. If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel. In addition to the INH:ALE input message, PER generation may be inhibited as a result of digital loopback testing (TST:DSL), routine exerciser (REX), or mechanized loop testing (MLT). This inhibit condition will exist for the duration of the test being performed for the line/trunk. After completion of the test, the PER inhibit condition will remain for a period of 3 to 6 minutes. After this period has expired, the inhibit condition will be cleared if the status prior to the invocation of the test was "allowed". If the previous status was not "allowed", then the line/trunk will remain inhibited. Use the ALW:ALE input message to clear the inhibit condition prior to the expiration of the 3 to 6 minute period.

Format 1 is used to request the status of the automatic ALE session output controls.

Format 2 is used to request the status of switching module (SM) parameters for a range of SMs.

Format 3 is used to request the status of the level 1 and PER generation controls for a single interface or ISDN protocol channel.

Format 4 will examine the status of every ISDN interface for the indicated SMs reporting those interfaces and ISDN protocol channels that have one or more of the six inhibits active.

Format 5 will report the capacity of the PER logging buffer resident in the SM physical memory. In addition, the current indication status of the PER logging buffer will be reported.

2. FORMAT

```
[1]    OP:ALE[,PRINT];

[2]    OP:ALE,SM=a[&&b][,PRINT];

[3]    OP:ALE,c[,CH=a1][,PRINT];

[4]    OP:ALE,SM=a[&&b],CHAN[,PRINT];

[5]    OP:ALE,SM=a[&&b],PER=CAP[,PRINT];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`CHAN` = Print a list of all inhibited channels for that SM(s).

`PRINT` = Direct the output to the ROP in addition to the requesting terminal.

`a` = SM number or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

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c = Line identification. Valid value(s):

AIUEN=f-n[1]-o[1]-p[1]
BST=d-e
DEN=f-g-h-i
DN=j
DNUSEOC=f-e[1]-x-y
DNUSTMC=f-e[1]-x-y
DSLGM=f-j[1]-k-l
IDCUEOC=f-w-x-y
IDCUTMC=f-w-x-y
ILEN=f-w-x-z
INEN=f-e[1]-x-z
LCEN=f-m-n-o
LCKEN=f-b[1]-m[1]-c[1]-d[1]
MLHG=p-q
NEN=f-e[1]-f[1]-q[1]-g[1]-h[1]-r[1]-i[1]
OAPO=d
OPT=d-e
PKTDN=j
PLTEN=f-s[1]-t[1]-u[1]-v[1]
PORT=f-u
PSUEN=f-j[1]-k[1]-l[1]-l
RTRS=s-t
TKGMN=u-v
VBRI=f-w[1]
VTRK=f-x[1]-y[1]

d = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = The DN or PKTDN associated with the port. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.

k = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`l` = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Multi-line hunt group (MLHG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Channel type (valid only for LCEN and LCKEN line identification). Valid value(s):

`B1` = Channel B1.
`B2` = Channel B2.
`D` = D-channel (default).

`b`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`c`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

u[1] = Tributary (T1FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized, or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature is not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred.
- INVALID INPUT = Parameter to allow does not match entity to allow.
- INVALID SM = SM number is invalid.
- PROCESS CREATION FAILURE = A system error has occurred.

PF = Printout follows. The request has been accepted and the OP:ALE message follows.

RL = Retry later. May also include:
- AM IN MIN MODE = The AM is in minimum operation mode.
- REQUEST ALREADY IN PROGRESS = An ALE status request is already running. Only one status request is allowed at a time.

5. REFERENCES

Input Message(s):

```
ALW:ALE
EXC:ALE
INH:ALE
TST:DSL
```

Output Message(s):

```
ALW:ALE
EXC:ALE
INH:ALE
OP:ALE
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-755 *Protocol Error Record Descriptions*

OP:ALE-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the status of automatic line evaluation (ALE) system control parameters and resource usage.

The control parameters are grouped into three classes.

Class	Definition
Automatic ALE Session Output Controls	The parameters LEVEL1, LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session. The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.
Switching Module (SM) Controls	The SM parameters control the behavior of the level 1 performance monitoring and protocol error record (PER) generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER. If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for all the U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL. Status requests that immediately follow the inhibiting (INH:ALE) of integrated services digital network (ISDN) protocol channels may give an erroneous indication that level 1 performance monitoring has been inhibited. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes. Status requests that immediately follow the allowing (ALW:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring is operational. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes. If the PER generation parameter is inhibited, then no PERs will be recorded for any ISDN protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel. After the introduction of PCF on PHE2 feature, ALE is not to provide performance monitoring error count information on A10/A11/ETHERNET

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	protocols, but should be able to provide the protocol error histories on A10/A11/ETHERNET protocols on PCF PH. There are two kind of PERs: level 2 and level 7. Level 2 PER retrieves the ethernet protocol error histories stored in the PH. Level 7 retrieves A10/A11 error histories stored in PH. If the PER generation parameter is inhibited, then no PERs will be recorded for PCF PH on the SM as well. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel and the PCF PH determines if PERs are recorded for that channel or PH.
Line/Trunk Controls	Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks. The level 1 control parameters consist of an overall level 1 inhibit, hourly alert generation, daily alert generation, interval report generation, and daily report generation. If the overall level 1 inhibit is active, then all level 1 performance monitoring activities for the U-interface are disabled. If the hourly alert generation inhibit is active, then the reporting of hourly alerts to the ROP will be suppressed for the interface. If the daily alert generation inhibit is active, then the reporting of daily alerts to the ROP will be suppressed for the interface. If the interval report generation inhibit is active, then the interface will not contribute to the interval report. If the daily report generation inhibit is active, then the interface will not contribute to the daily report. One or more of the level 1 controls may be active. This information is applicable to U-interface DSLs. Status requests that immediately follow the inhibiting (INH:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring has been inhibited. The actual counting of level 1 errored seconds, severely errored seconds, and CRC BEs, may not be inhibited for a period of up to 5 minutes. Status requests that immediately follow the allowing (ALW:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring is operational. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes. If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel or the PCF PH. In addition to the INH:ALE input message, PER generation may be inhibited as a result of digital loopback testing (TST:DSL), routine exerciser (REX), or mechanized loop testing (MLT). This inhibit condition will exist for the duration of the test being performed for the line/trunk. After completion of the test, the PER inhibit condition will remain for a period of 3 to 6 minutes. After this period has expired, the inhibit condition will be cleared if the status prior to the invocation of the test was "allowed". If the previous status was not "allowed", then the line/trunk will remain inhibited.
Line/Trunk Controls Continued	Use the ALW:ALE input message to clear the inhibit condition prior to the expiration of the 3 to 6 minute period.

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Format 1 is used to request the status of the automatic ALE session output controls.

Format 2 is used to request the status of switching module (SM) parameters for a range of SMs.

Format 3 is used to request the status of the level 1 and PER generation controls for a single interface or ISDN protocol channel or PCF PH.

NOTE: For PCF PH, only DSLGM will be supported in this format. Valid value(s):
`DSLGM=ALL-ALL-ALL-ALL` = The entire office.
`DSLGM=f-ALL-ALL-ALL` = The entire SM.
`DSLGM=f-b`[1]`-ALL-ALL` = The entire PCF PH.
`DSLGM=f-b`[1]`-k-l` = If validated, the entire PCF PH.

Format 4 will examine the status of every ISDN interface for the indicated SMs reporting those interfaces and ISDN protocol channels that have one or more of the six inhibits active.

Format 5 will report the capacity of the PER logging buffer resident in the SM physical memory. In addition, the current indication status of the PER logging buffer will be reported.

Format 6 is used to request the status of PER generation controls for PCF PH.

2. FORMAT

`[1]` `OP:ALE[,PRINT];`

`[2]` `OP:ALE,SM=a[&&b][,PRINT];`

`[3]` `OP:ALE,c[,CH=a`[1]`][,PRINT];`

`[4]` `OP:ALE,SM=a[&&b],CHAN[,PRINT];`

`[5]` `OP:ALE,SM=a[&&b],PER=CAP[,PRINT];`

`[6]` `OP:ALE,PCFIP=z`[1]`-z`[1]`-z`[1]`-z`[1]`,PER=GEN[,PRINT];`

---

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`CHAN` = Print a list of all inhibited channels for that SM(s).

`PRINT` = Direct the output to the ROP in addition to the requesting terminal.

`a` = SM number or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

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c = Line identification. Valid value(s):

AIUEN=f-n[1]-o[1]-p[1]
BST=d-e
DEN=f-g-h-i
DN=j
DNUSEOC=f-e[1]-x-y
DNUSTMC=f-e[1]-x-y
DSLGM=f-j[1]-k-l
IDCUEOC=f-w-x-y
IDCUTMC=f-w-x-y
ILEN=f-w-x-z
INEN=f-e[1]-x-z
LCEN=f-m-n-o
LCKEN=f-b[1]-m[1]-c[1]-d[1]
MLHG=p-q
NEN=f-e[1]-f[1]-q[1]-g[1]-h[1]-r[1]-i[1]
OAPO=d
OIUEN=f-a[2]-b[2]-c[2]-d[2]-h[1]-r[1]-i[1]
OPT=d-e
PKTDN=j
PLTEN=f-s[1]-t[1]-u[1]-v[1]
PORT=f-u
PSUEN=f-j[1]-k[1]-l[1]-l
RTRS=s-t
TKGMN=u-v
VBRI=f-w[1]
VTRK=f-x[1]-y[1]

d = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = The DN or PKTDN associated with the port. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.

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`k` = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Multi-line hunt group (MLHG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Channel type (valid only for LCEN and LCKEN line identification). Valid value(s):

`B1` = Channel B1.
`B2` = Channel B2.
`D` = D-channel (default).

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`b`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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t[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = Tributary (T1FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[1] = IP address field. Valid value is 0-255.

a[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[2] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[2] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized, or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature is not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred.
- INVALID INPUT = Parameter to allow does not match entity to allow.
- INVALID SM = SM number is invalid.
- PROCESS CREATION FAILURE = A system error has occurred.

PF = Printout follows. The request has been accepted and the OP:ALE message follows.

RL = Retry later. May also include:
- AM IN MIN MODE = The AM is in minimum operation mode.
- REQUEST ALREADY IN PROGRESS = An ALE status request is already running. Only one status request is allowed at a time.

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5. REFERENCES

Input Message(s):

```
ALW:ALE
EXC:ALE
INH:ALE
TST:DSL
```

Output Message(s):

```
ALW:ALE
EXC:ALE
INH:ALE
OP:ALE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-755 *Protocol Error Record Descriptions*

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OP:ALM

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests alarm summary of either off-normal or all alarm scan points.

Format 1 is for requesting remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) metallic service unit (MSU) building/power alarm scan points. This message is available only in an RSM, ORM, or TRM that has the alarm input option.

Format 2 is for requesting remote integrated services line unit (RISLU) or expansion access interface unit (EAIU) alarm scan points, either for a single remote peripheral or all remote peripherals at a specified site. When requested for a single remote peripheral, normal and off-normal states are output. When requested for a site, only off-normal states are output unless ALL is specified.

Format 3 is for requesting remote alarm section (RAS) scan points.

Format 4 requests that all active alarms in the office be printed. Alarms included are:
- Administrative module (AM) fan alarms.
- Local office building/power and miscellaneous alarms.
- Common network interface (CNI) alarms.
- Communication module (CM) fan and fan fuse alarms.
- Miscellaneous frame fan and fuse alarms.
- External sanity monitor (ESM) alarms.
- CM power alarms.
- Carrier group alarms.
- Fan and fan/peripheral fuse alarms for all operational switching modules (SMs).
- Building/power alarms for remoted SMs.
- Remote peripheral building/miscellaneous alarms.
- Expansion access interface unit (EAIU) fan and fuse alarms.
- Remote integrated services line unit (RISLU) fan, fuse, power, and battery alarms.
- Multiplex access interface unit (XAIU) fan and fuse alarms.
- Metallic service unit (MSU) alarms.
- Integrated TR008/TR303 remote terminal (RT) alarms.

TR008 RTs can be the *SLC®* 96, Series 5 Feature Package B, and Enhanced B. TR303 TRs can be the Series 5 feature package 303G.

In the case of MSU alarms, the status of all MSU scan points will be reported regardless of whether they are active or inactive.

Format 5 is for requesting XAIU alarm scan points. Normal and off-normal states are output.

WARNING: Format 4 of this message is resource and ROP intensive and should be run only during off hours.

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Also, if Format 4 of this message is being used at the Switch Control Center (SCC), only one office should be interrogated for office alarm status (OP:ALM-ALL) at a time because the potential exists for overwriting data at the SCC.

2. FORMAT

```
[1]    OP:ALM,RBPSC,SM=a[,ALL];
       ____________________________________________________________

[2]    OP:ALM,RP,{RISLU=a-b|EAIU=a-d|SITE=c[,ALL]};
       ____________________________________________________________

[3]    OP:ALM,RAS,SITE=c[,ALL];
       ____________________________________________________________

[4]    OP:ALM,ALL;
       ____________________________________________________________

[5]    OP:ALM,XAIU=a-e;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = When used with formats one through three, report on all scan points including ones that are in the normal state in the specified SM or at the specified site. When used with Format 4, report all active alarms in the office.

`RBPSC` = Remote building/power scan point.

`RP` = Remote peripheral.

`XAIU` = Multiplex access interface unit.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Remote peripheral site number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = EAIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = XAIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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NG = No good. Invalid SM, site number, or option not available. The request could also be denied due to a system problem. May also include:
- INTERNAL ERROR (OPEN FAIL1) /etc/HMBLDALMS = The request cannot be completed because the file /etc/HMBLDALMS cannot be opened for reading. There is either a system problem preventing it being opened or it is missing.
- INTERNAL ERROR (READ FAIL1) /etc/HMBLDALMS = The request cannot be completed because the file /etc/HMBLDALMS cannot be read. There is a system problem preventing it being read.

PF = Printout follows. An OP:ALM-ALL, OP:ALM-RAS, OP:ALM-RBPSC, OP:ALM-RP, or OP:ALM-XAIU output message will follow in response to the request.

RL = Retry later. For Formats 1, 2, 3, and 5, unable to process request or unable to communicate with SM. For Format 4, the request is being denied due to unavailable resources necessary for completing the request. May also include:
- ALREADY IN PROGRESS = A previous OP:ALM request is still in progress.
- CGA SUMMARY IN PROGRESS = A previous OP:CGA request is still in progress.
- CM IS ISOLATED = The CM is currently isolated.
- CM SIDES HAVE INCONSISTENT VINTAGES = The CM sides are in a transient state and not the same vintage (one side is a CM model 1 and the other side is a CM model 2).
- RT ALARM SUMMARY IN PROGRESS = A previous OP:RT-ALM-ALL request is still in progress.

5. REFERENCES

Input Message(s):

```
CLR:OP-ALM-ALL
OP:CFGSTAT-SM
OP:CGA
OP:MSUSP
OP:RT-ALM-ALL
STP:OP-ALM-ALL
```

Output Message(s):

```
OP:ALM-ALL
OP:ALM-RAS
OP:ALM-RBPSC
OP:ALM-RP
OP:ALM-XAIU
OP:CFGSTAT-CM
OP:CGA
OP:MSUSP
OP:RT-ALARM
REPT:ALM
```

Input Appendix(es):

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```
APP:RANGES
```

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OP:AMA-CONFIG

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the automatic message accounting (AMA) configuration files.

2. FORMAT

```
OP:AMA:CONFIG[,{ST1|ST2}];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or an ST2. However, for a dual stream office, the stream must be specified as either an ST1 or an ST2.

4. SYSTEM RESPONSE

`NG` = No good. Data stream checks failed.

`PF` = Printout follows. State of the configuration files will be output.

`RL` = Retry later. Process could not attach to a protected application segment, or a message could not be sent to the monitor process.

5. REFERENCES

Input Message(s):

```
SET:AMA-CONFIG
```

Output Message(s):

```
REPT:AMA-CONFIG
```

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OP:AMA-CONTROLF

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the current state of the automatic message accounting (AMA) control file be obtained.

2. FORMAT

```
OP:AMA:CONTROLFILE[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`NG` = No good. Data stream checks failed.

`PF` = Printout follows. Followed by output message REPT:AMA-CONT.

`RL` = Retry later. Message could not be sent to the AMA monitor process.

5. REFERENCES

Input Message(s):

```
ALW:AMA-AUTOST
ALW:AMA-SESSION
INH:AMA-AUTOST
INH:AMA-SESSION
OP:AMA-STREAM
SET:AMA-CONTROL
```

Output Message(s):

```
REPT:AMA-CONT
```

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OP:AMA-DISK

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests current automatic message accounting (AMA) disk space occupancy data. The output displays a truncated percentage of disk space occupied by primary AMA records. In addition, the output also displays the number of primary AMA blocks in use on disk. Because the percentage is truncated, if 0% is displayed, there may still be a small amount of primary data left on disk.

If the alarm levels have been changed in RC/V View 8.1, then there is a possibility that the alarm status has changed. The use of this input message permits the output of the appropriate upgrade and/or downgrade alarm messages along with the appropriate alarm.

During software transitions when the retrofit site file exists, this message only works once the disks are accessed during the session and immediately after a tape or teleprocessing session on the offline side. Once the disks are accessed, it reflects the percent and blocks on disk as they are known to the AMA disk reader (reflecting any data marked as secondary as the session progresses). Prior to such sessions, it gives invalid output and does not reflect the percentage or number of blocks on either the online or offline sides. When the retrofit site file does not exist, the input message works on the online side at all times before, during and after tape or teleprocessing sessions.

2. FORMAT

```
OP:AMA:DISK[,{ST1|ST2}];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`NG` = No good. Data stream checks failed.

`PF` = Printout follows. Followed by REPT:AMA-DISK-SUM output message.

`RL` = Retry later. Status cannot be obtained.

5. REFERENCES

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Input Message(s):

```
OP:AMA-MAPS
OP:AMA-STREAM
```

Output Message(s):

```
REPT:AMA-CRIT
REPT:AMA-DISK-ALM
REPT:AMA-DISK-STO
REPT:AMA-DISK-SUM
REPT:AMA-MAJOR
REPT:AMA-MINOR
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-105-24x *Generic Retrofit Procedures*

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]

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OP:AMA-MAINT

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic message accounting (AMA) maintenance file be obtained.

2. FORMAT

```
OP:AMA:MAINTFILE[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`NG` = No good. The stream checks failed.

`PF` = Printout follows. Followed by REPT:AMA-MAINT output message.

`RL` = Retry later. The message could not be sent to the appropriate monitor process(es). The input process cannot attach to the protected application segment (PAS).

5. REFERENCES

Input Message(s):

```
OP:AMA-SUMMARY
```

Output Message(s):

```
REPT:AMA-MAINT
REPT:AMA-TELE-SUM
```

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OP:AMA-MAPS

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests the contents of the disk maps for all partitions and the contents of the global maps for each stream. During software transitions when the retrofit site file exists, this input message only works on the online side.

2. FORMAT

```
OP:AMA:MAPS[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or an ST2.

4. SYSTEM RESPONSE

`NG` = No good. Stream value is invalid.

`PF` = Printout follows. The contents of the disk maps and global maps for all partitions equipped is output.

`RL` = Retry later. Process could not attach to a protected application segment.

5. REFERENCES

Input Message(s):

```
OP:AMA-CONFIG
OP:AMA-DISK
OP:AMA-STREAM
```

Output Message(s):

```
REPT:AMA-DISK-MAP
```

Other Manual(s):

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Where 'x' is the release-specific version of the specified manual.

235-105-24x *Generic Retrofit Procedures*

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OP:AMA-SEQ

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Indicate which disk blocks correspond to a given block sequence number, and the automatic message accounting (AMA) partitions on which they are located. The contents of these block sequence numbers are dumped to the receive-only printer (ROP) in hexadecimal. One block sequence number contains 1536bytes and is made up of three disk blocks.

2. FORMAT

```
OP:AMA:SEQ,BLK=a[,ST1|ST2];
```

3. EXPLANATION OF MESSAGE

`SEQ` = Output disk blocks corresponding to the given block sequence number.

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.

`a` = Block sequence number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If the block sequence numbers on the partition consists of the contiguous range [1-27,84-111], then the block sequence numbers are addressed as a continuous sequence [1-55].

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by REPT:AMA-SEQ output message.

5. REFERENCES

Input Message(s):

```
DUMP:MHD-BLOCK
DUMP:MHD-VTOC
OP:AMA-MAPS
```

Output Message(s):

```
DUMP:MHD-BLOCK
DUMP:MHD-VTOC
```

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```
REPT:AMA-SEQ
REPT:AMA-DISK-MAP
```

Input Appendix(es):

```
APP:RANGES
```

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OP:AMA-SESSION

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests a report of the current or most recent automatic message accounting (AMA) tape or teleprocessing session.

2. FORMAT

```
OP:AMA:SESSION[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = AMA data goes to the ST1 data stream.

`ST2` = AMA data goes to the ST2 data stream.
Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`NG` = No good. Data stream checks failed or AMA data networking services processing is active.

`PF` = Printout follows. If any invalid data was encountered while processing the input message, an REPT:AMA-CONT output message will follow. Also following this printout is the REPT:AMA-TELE-SE output message if the AMA teleprocessing option is in effect or a REPT:AMA-TAPE-SES output message if the tape option is in effect. If there was no previous tape session, then the month field for START TIME, FIRST BLOCK and LAST BLOCK in this output will be printed as ??? indicating no valid month is applicable in that situation. Similarly, if there was no previous teleprocessing session, then the month field for START TIME and STOP TIME in the output will be printed as ???.

`RL` = Retry later. Message could not be sent to the appropriate process.

5. REFERENCES

Input Message(s):

```
OP:AMA-STREAM
```

Output Message(s):

```
REPT:AMA-CONT
REPT:AMA-TAPE-SES
```

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```
REPT:AMA-TELE-SE
```

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OP:AMA-STATUS

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests the printing of the automatic message accounting (AMA) record status in the administrative module (AM) buffer.

2. FORMAT

```
OP:AMA:STATUS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG	= No good. The stream checks failed.
PF	= Printout follows. Followed by the REPT:AMA-STATUS output message.
RL	= Retry later. Necessary resources are not available. The input process cannot attach to the AM buffer.

5. REFERENCES

Output Message(s):

```
REPT:AMA-STATUS
```

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OP:AMA-SUMMARY

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests automatic message accounting (AMA) teleprocessing and tape summary data.

Note: For tape summary, enter the OP:AMA-CONTROL input message, prior to entering this message.

2. FORMAT

```
OP:AMA:SUMMARY;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The stream checks failed.

`PF` = Printout follows. Followed by REPT:AMA-TAPE-SUM output message.

`RL` = Retry later. The message could not be sent to the appropriate monitor process(es). The input process cannot attach to the Protected Application Segment (PAS).

5. REFERENCES

Input Message(s):

```
OP:AMA-SUMMARY
```

Output Message(s):

```
REPT:AMA-TAPE-SUM
```

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OP:AMA-TELE

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests automatic message accounting (AMA) teleprocessing summary data that has been accumulated today.

2. FORMAT

```
OP:AMA:TELEPROCESSING[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Used if AMA data goes to the ST1 data stream.

`ST2` = Used if AMA data goes to the ST2 data stream.
Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`NG` = No good. Tape option is in effect, data stream checks failed, or AMA data networking services processing is active.

`PF` = Printout follows. Followed by a REPT:AMA-TELE-SE output message if the teleprocessing option is in effect. If invalid data was encountered while processing the input message, an audit printout will follow.

`RL` = Retry later. The message could not be sent.

5. REFERENCES

Input Message(s):

```
OP:AMA-STREAM
```

Output Message(s):

```
REPT:AMA-SESSIONS
REPT:AMA-TELE-SE
```

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OP:AMA

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests output of the automatic message accounting (AMA) office stream configuration.

2. FORMAT

```
OP:AMA:a;
```

3. EXPLANATION OF MESSAGE

`a` = Stream destination. Valid value(s):

- `DUAL` = Both ST1 and ST2 data streams.
- `ST1` = ST1 data stream.
- `ST2` = ST2 data stream.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by REPT:AMA-STREAM output message.

`RL` = Retry later. Process could not attach to a protected application segment.

5. REFERENCES

Input Message(s):

```
SET:AMA-STREAM
```

Output Message(s):

```
REPT:AMA-STREAM
```

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OP:AMAIRR

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the automatic message accounting irregularity (AMAIRR) record reporting feature.

2. FORMAT

```
OP:AMAIRR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. The OP:AMAIRR output message follows.

5. REFERENCES

Input Message(s):

```
ALW:AMAIRR
INH:AMAIRR
```

Output Message(s):

```
OP:AMAIRR
REPT:AMAIRR
```

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OP:AMALOST

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the automatic message accounting lost (AMALOST) record reporting feature.

2. FORMAT

```
OP:AMALOST;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. The OP:AMALOST output message will follow.

5. REFERENCES

Input Message(s):

```
ALW:AMALOST
ALW:AMATRC
INH:AMALOST
```

Output Message(s):

```
OP:AMALOST
REPT:AMALOST
```

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OP:AMATRC

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the automatic message accounting (AMA) record reporting feature AMATRC.

2. FORMAT

```
OP:AMATRC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. The OP:AMATRC output message will follow.

5. REFERENCES

Input Message(s):

```
ALW:AMATRC
INH:AMATRC
```

Output Message(s):

```
OP:AMATRC
REPT:AMATRC
```

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OP:AML

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the number of out-of-service (OOS) trunks be printed in relation to the automatic maintenance limit (AML) for a specified trunk group or a list of all trunk groups whose outages have reached their AML.

Note: Only outgoing and two-way trunk groups have an AML; no AML is kept for incoming trunk groups.

2. FORMAT

```
OP:AML[,TG=a];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number (TGN) whose AML count is desired. Default prints all TGNs that have reached their AML.

Note: If an '*' has appeared for a trunk group in a previous OP:AML output message, then specifying a trunk group for this input message should retire the '*'. If it does not, then communication to all the modules associated with the trunk group has not been restored.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. The OP:AML output message will follow identifying the OOS count and AML.

`RL` = Retry later. The request has been denied because of system load.

5. REFERENCES

Output Message(s):

```
OP:AML
REPT:AML-REACH
```

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OP:ANITBL

Software Release: 5E15 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Requests a summary report of the ANI Index Table (RC View 8.58) and LDP Index Table (RC View 8.59).

2. FORMAT

```
OP:ANITBL,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = Individual Switching Module (SM) number or lower limit for a range of SM number.

`b` = Upper limit for a range of SM number.

4. SYSTEM RESPONSE

`NG` = No good.

`PF` = Printout follows.

`RL` = Retry later. One possible condition is that another OP:ANITBL job is in progress. Only one job is allowed at a time.

5. REFERENCES

Output Message(s):

`OP:ANITBL`

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OP:APSSTAT

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests automatic protection switching (APS) status of optical carrier - level 3 (OC3) or optical carrier - level 3 concatenated (OC3C) circuits for optical interface units (OIUs) in a switching module (SM) or a range of SMs. If the ALL option is not specified, the request is for circuits with off-normal APS state only.

2. FORMAT

```
OP:APSSTAT,SM=a[&&b][,ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Applies to all OC3(C) circuits with normal and off-normal APS states in the specified SM or a range of SMs.

`a` = SM number or lower end of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = High end of range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the OP:APSSTAT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`OP:APSSTAT`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

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1491 OIU OC3(C) STATUS

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OP:APT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Displays the status of an automatic (Trunk) progression test (APT) session.

2. FORMAT

```
OP:APT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Message(s):

```
SCHED:APT
```

Output Message(s):

```
OP:APT
REPT:APT-ABORT
REPT:APT-COMPL
REPT:APT-FAIL
REPT:APT-RESUME
REPT:APT-START
REPT:APT-STOP
REPT:APT-SUSPEND
```

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OP:ARC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Lists all alternate route cancellation (ARC) controls in the office. This includes the following information for each control:

- Office name.
- Type of control initiated.
- Type of traffic subject to the control.
- Announcement treatment if blocking occurs.

This message is valid only for defense switched network (DSN) switches.

2. FORMAT

```
OP:ARC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ARC output message.

`RL` = Retry later. May also include:
- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:ARC
OP:DSNM5
SET:ARC
```

Output Message(s):

```
OP:ARC
```

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OP:ASPTQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests displaying the advanced services platform (ASP) 0.1 test query parameters associated with a specified message type. By specifying a message type of ALL, all of the ASP 0.1 test query parameters are displayed.

2. FORMAT

```
OP:ASPTQ,MSGTYPE=a;
```

3. EXPLANATION OF MESSAGE

a = The message type. For convenience, the test query parameters associated with each message type are listed below.

NOTE: The message type of NPINFOANAL is not allowed for the OP:ASPTQ message. Refer to the parameters associated with the number portability (NP) test query (TST:ASPTQ,MSGTYPE=NPINFOANAL), the NP test query operation must be performed first, then OP:ASPTQ,MSGTYPE=INFOANAL can be executed to refer to the parameters used by the previously sent NP test query.

CLOSE = Close.
- AIN maintenance parameter.
- Bearer capability.
- Close cause.
- User ID.

INFOANAL = Information analyzed.
- Access code.
- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party business group ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Global title address.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.

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- Signaling Platform.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

INFOCOLL = Information collected.

- Access code.
- AIN maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Extension.
- Generic address list.
- Global title address.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

NTWKBSY = Network Busy.

- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Traveling class mark.
- Trigger criteria type.
- User ID.

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OANSWER = Originating answer.

- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

OCLDPTYBSY = Originating called party busy.

- AIN maintenance parameter.
- Bearer capability.
- Busy cause.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Trigger criteria type.
- User ID.

ODISCONNECT = Originating disconnect

- AIN maintenance parameter.
- Bearer capability.
- Disconnect cause.

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- Notification indicator.
- User ID.

ODTMFENTRD = Originating dial tone multi-frequency (DTMF) entered.

- AIN maintenance parameter.
- Bearer capability.
- DTMF digits detected.
- Notification indicator.
- User ID.

ONOANSWER = Originating no answer.

- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Origination point code.
- Original called party ID.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Trigger criteria type.
- User ID.

ORIGAT = Origination attempt.

- AIN maintenance parameter.

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- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Global title address.
- Local access and transport area.
- Origination point code.
- Primary carrier.
- Signaling Platform.
- Timer.
- Translation type.
- Trigger criteria type.
- User ID.

OTERMSZD = Originating termination seized.

- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

TANSWER = Terminating answer.

- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

TBUSY = Terminating busy.

- AIN maintenance parameter.
- Bearer capability.
- Busy cause.
- Busy type.

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- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Trigger criteria type.
- User ID.

TERMAT = Termination attempt.

- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Global title address.
- Local access and transport area.
- Original called party ID.

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- Origination point code.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.

TNOANSWER = Terminating no answer.

- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Trigger criteria type.
- User ID.

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TRMRSRCAVL = Terminating resource available.

- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

RESCLR = Resource clear.

- AIN maintenance parameter.
- AMA measurement.
- Clear cause.
- Collected address information.
- Collected digits.
- Failure cause.
- Primary carrier.
- Timer.

ALL = All of the ASP 0.1 test query parameters.

- Access code.
- AIN maintenance parameter.
- AMA measurement.
- Bearer capability.
- Busy cause.
- Called party ID.
- Called party station type.
- Calling party business group ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Clear cause.
- Close cause.

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- Collected address information.
- Collected digits.
- Disconnect cause.
- DTMF digits detected.
- Extension.
- Failure cause.
- Generic address list.
- Generic name.
- Global title address.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

4. SYSTEM RESPONSE

`NO` = The request is not allowed. May also include:
– `FEATURE NOT AVAILABLE` = The ASP 0.1 feature must be purchased before attempting to display ASP 0.1 test query parameters.

`PF` = Printout follows. Followed by an OP:ASPTQ output message.

`RL` = Retry later. Valid value(s):
- `INTERNAL ERROR` = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):

```
CLR:ASPTQ
SET:ASPTQ
TST:ASPTQ
```

Output Message(s):

```
OP:ASPTQ
```

Other Manual(s):
235-190-126 *Advanced Services Platform*

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OP:ATMALM-A

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the virtual path(s) (VPATHs), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state.

An alarmed virtual path can be in the alarm indication signal (AIS) or remote defect indication (RDI) state. By choice, the output can list the alarmed virtual path(s) in terms of far end PSU CAs that this near end PSU CA has connection to; or in terms of virtual path identifier (VPI) number(s) that uniquely identify the virtual paths between this near end packet switch unit (PSU) CA to all other far end PSU CAs. There are two virtual paths, one high priority and one low priority, that connect two PSU CAs. The high priority VPI number is equal to the far end PSU CA multiplied by 2; and the low priority VPI number is one more than the high priority VPI number. NOTE: For gateway protocol handlers (PH) the only valid input message format is #3. Other formats will not yield the expected results.

2. FORMAT

```
[1]    OP:ATMALM,PSUCA=a[,FARCA=b],d[,e];

[2]    OP:ATMALM,PSU=c-0[,FARCA=b],d[,e];

[3]    OP:ATMALM,PSUCA=a;
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link or the virtual path(s).

`b` = Far PSU community address of the PSU link.

Note: This field (a non-zero value) is required for network configured as point to point. It is optional (a zero value if entered) for multipoint ATM network.

`c` = Switching module (SM) number.

`d` = Indication to list alarmed virtual path(s) either in far end PSU CA(s) or VPI number(s). Valid value(s):

`CA` = Community address.

`VPI` = Virtual path identifier.

`e` = Indication to find virtual paths whose status matches this value. Valid value(s):

`AIS` = Alarm indication signal.

`RDI` = Remote defect indication.

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Note: If this field is not specified, then all virtual paths in AIS and/or RDI are reported.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:ATMALM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP:ATMALM

MCC Display Page(s):

1187 (PSU LINKS STATUS)

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OP:ATMALM-B

Software Release: 5E16(1) - 5E16(2)
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the virtual path(s) (VPATHs), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state.

An alarmed virtual path can be in the alarm indication signal (AIS) or remote defect indication (RDI) state. By choice, the output can list the alarmed virtual path(s) in terms of far end PSU CAs that this near end PSU CA has connection to; or in terms of virtual path identifier (VPI) number(s) that uniquely identify the virtual paths between this near end packet switch unit (PSU) CA to all other far end PSU CAs.

There are two virtual paths, one high priority and one low priority, that connect two PSU CAs. The high priority VPI number is equal to the far end PSU CA multiplied by 2; and the low priority VPI number is one more than the high priority VPI number.

NOTE: For gateway protocol handlers (PH) the only valid input message format is #3. Other formats will not yield the expected results.

2. FORMAT

```
[1]    OP:ATMALM,PSUCA=a[,FARCA=b],d[,e];

[2]    OP:ATMALM,PSU=c-0[,FARCA=b],d[,e];

[3]    OP:ATMALM,PSUCA=a;
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link or the virtual path(s).

`b` = Far PSU community address of the PSU link.

Note: This field (a non-zero value) is required for network configured as point to point. It is optional (a zero value if entered) for multipoint ATM network.

`c` = Switching module (SM) number.

`d` = Indication to list alarmed virtual path(s) either in far end PSU CA(s) or VPI number(s). Valid value(s):

`CA` = Community address.

`VPI` = Virtual path identifier.

`e` = Indication to find virtual paths whose status matches this value. Valid value(s):

`AIS` = Alarm indication signal.

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RDI = Remote defect indication.

Note: If this field is not specified, then all virtual paths in AIS and/or RDI are reported.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:ATMALM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP:ATMALM

MCC Display Page(s):

1187,y (PSU LINKS STATUS)
where y=PSU number

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OP:ATMALM-C

Software Release: 5E17(1) only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the virtual path(s), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state.

An alarmed virtual path can be in the alarm indication signal (AIS) or remote defect indication (RDI) state. By choice, the output can list the alarmed virtual path(s) in terms of far end PSU CAs that this near end PSU CA has connection to, or in terms of virtual path identifier (VPI) or VPI and virtual channel identifier (VCI) number(s) that uniquely identify the virtual paths between this near end packet switch unit (PSU) CA to all other far end PSU CAs.

There can be two virtual path connections, one high priority and one low priority, that connect two PSU CAs. The high priority VPI number is equal to the far end PSU CA multiplied by 2, and the low priority VPI number is one more than the high priority VPI number.

There can be two virtual channel connections, one high priority and one low priority, that connect two PSU CAs. The high and low priority VPI numbers are provisioned and the VCI is equal to the far end PSU CA plus 64.

For internetwork connections the far subnetwork must be entered. There is however only a high priority virtual path or virtual channel connection.

2. FORMAT

```
[1]    OP:ATMALM,PSUCA=a[,FARSN=b][,FARCA=c],d[,e];
       ____________________________________________________________

[2]    OP:ATMALM,PSU=f-g[,FARSN=b][,FARCA=c],d[,e];
       ____________________________________________________________

[3]    OP:ATMALM,PSALNK=f-g-h[,FARSN=b],d[,e];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link or the virtual path(s).

`b` = Far subnetwork number.

`c` = Far PSU community address of the PSU link.

This field (a non-zero value) is required for network configured as point to point. It is optional (a zero value if entered) for multipoint ATM network.

`d` = Indication to list alarmed virtual path(s) either in far end PSU CA(s) or VPI number(s). Valid value(s):
`CA` = Community address.

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VPI = Virtual path identifier.

e = Indication to find virtual paths whose status matches this value. Valid value(s):
- AIS = Alarm indication signal.
- RDI = Remote defect indication.
- L2QUAL = L2 quality information.

If this field is not specified, then all virtual paths in AIS and/or RDI are reported.

f = Switching module (SM) number.

g = PSU number.

h = ATM link number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:ATMALM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
OP:ATMALM
```

MCC Display Page(s):
1187,y,x PSU LINKS STATUS (where y=PSU number and x=SM number)

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OP:ATMALM-D

Software Release: 5E18(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the virtual path(s), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm or ATM misrouted cell state.

An alarmed virtual path can be in the alarm indication signal (AIS) or remote defect indication (RDI) state. By choice, the output can list the alarmed virtual path(s) in terms of far end PSU CAs that this near end PSU CA has connection to, or in terms of virtual path identifier (VPI) and virtual channel identifier (VCI) number(s) that uniquely identify the virtual paths between this near end packet switch unit (PSU) CA to all other far end PSU CAs.

There can be two virtual path connections, one high priority and one low priority, that connect two PSU CAs. The high priority VPI number is equal to the far end PSU CA multiplied by 2, and the low priority VPI number is one more than the high priority VPI number.

There can be two virtual channel connections, one high priority and one low priority, that connect two PSU CAs. The high and low priority VPI numbers are provisioned and the VCI is equal to the far end PSU CA plus 64.

For internetwork connections the far subnetwork must be entered. There is however only a high priority virtual path or virtual channel connection.

This command can also report the layer 2 quality information on all equipped ATM PVCs when using the L2QUAL option. The far PSU CA or VPI/VCI information will be listed for permanent virtual circuits (PVCs) that have exceeded the level 2 quality error threshold.

This command can also report detailed ATM misrouted user and operations, administration and maintenance (OA&M) cell information on all equipped ATM PVCs when using the `MISMATCH` option. The far PSU CA and VPI/VCI information will be listed for PVCs where the incoming ATM cells are unexpected.

The `CLEAR` option can be used to clear the current ATM misrouted user and OA&M cell information and layer 2 quality information.

NOTE: The AIS and RDI state are only cleared when the problem is resolved.

The `STBY` option can be used to report all above information from the PHA2 with the standby channel. By default the above information is only reported from the PHA2 with the active channel.

2. FORMAT

```
[1]    OP:ATMALM,PSUCA=a[,FARSN=b][,FARCA=c],d[,e][,CLEAR][,STBY];
       ___________________________________________________________

[2]    OP:ATMALM,PSU=f-g[,FARSN=b][,FARCA=c],d[,e][,CLEAR][,STBY];
       ___________________________________________________________

[3]    OP:ATMALM,PSALNK=f-g-h[,FARSN=b][,FARCA=c],d[,e][,CLEAR][,STBY];
```

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3. EXPLANATION OF MESSAGE

`CLEAR` Clear the current ATM mismatch cell counts and/or layer 2 quality information.

`STBY` Print all information from the PHA2 with the standby channel.

`a` = Near PSU community address of the PSU link or the virtual path(s).

`b` = Far subnetwork number.

`c` = Far PSU community address of the PSU link.

This field (a non-zero value) is required for network configured as point to point. It is optional (a zero value if entered) for multipoint ATM network.

`d` = Indication to list alarmed virtual path(s) either in far end PSU CA(s) or VPI number(s). Valid value(s):
`CA` = Community address.
`VPI` = Virtual path identifier.

`e` = Indication to find virtual paths whose status matches this value. Valid value(s):
`AIS` = Alarm indication signal.
`RDI` = Remote defect indication.
`L2QUAL` = L2 quality information.
`MISMATCH` = Mismatch routing information.

If this field is not specified, then all virtual paths in AIS and/or RDI, L2 quality and cell mismatch are reported.

`f` = Switching module (SM) number.

`g` = PSU number.

`h` = ATM link number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by the OP:ATMALM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

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```
OP:ATMALM
```

MCC Display Page(s):
1187,y,x PSU LINKS STATUS (where y=PSU number and x=SM number)

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OP:ATTS

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of the specified automatic trunk test scheduler (ATTS) test schedule.

2. FORMAT

```
OP:ATTS,SCHED=a;
```

3. EXPLANATION OF MESSAGE

`a` = The number of the ATTS test schedule whose status is to be output (1 - 20).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted, and is followed by the OP:ATTS output message.

5. REFERENCES

Input Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS
```

Output Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS
```

Other Manual(s):

Where (X) is the release-specific version of the specified manual.

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235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

RC/V View(s):

14.9 (ATTS TEST SESSION SCHEDULE DATA)
14.10 (ATTS TEST SCHEDULE PARAMETER)

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OP:AUD-ERRLOG

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests either the generation of a detailed error report of the errors found by a previously-executed full, incremental or entity static office-dependent data (SODD) audit, a detailed summary report of errors detected by one of the forementioned audits, or just a summary of the number of errors found by one of the forementioned audits.

If a detailed error report is to be generated, a file name to where the output is to be written must be specified with the optional OUTFILE keyword. This file will then be located under the /rclog/SODD/reports directory. If a detailed summary report is to be generated, both the SUMMARY and OUTFILE keywords must be specified. The detailed summary will then be located under the /rclog/SODD/reports directory. If just a summary of the error count is to be generated, the SUMMARY keyword must be specified (without the OUTFILE keyword). This sends the output to the receive-only printer (ROP).

2. FORMAT

```
[1]    OP:AUD=SODD,ERRLOG,{[TN=a | OE="b" |
       RELATION='c',{AM|SM=d|CMP} |
       MLHG=e[,MEMB=f] | TGN=g[,MEMB=h]}
       [,ALL[=i]][,BREVITY[=j]][,EXPAND[=k]]
       {,OUTFILE=l|,SUMMARY|,OUTFILE=l,SUMMARY};

[2]    OP:AUD=SODD,ERRLOG,FULL,DAY=m[,WEEK=n][,CYCLE={PREV|CUR}]
       [,ALL[=i][,BREVITY[=j]][,EXPAND[=k]]
       {,OUTFILE=l|,SUMMARY|,OUTFILE=l,SUMMARY};

[3]    OP:AUD=SODD,ERRLOG,INCR,{AM|SM=o|CMP|RED|ALLPRC|DAY=p}
       [,CYCLE={PREV|CUR}][,ALL[=i][,BREVITY[=j]][,EXPAND[=k]]
       {,OUTFILE=l|,SUMMARY|,OUTFILE=l,SUMMARY};

[4]    OP:AUD=SODD,ERRLOG,BRCS,MFT=q,{AM|SM=r|CMP}>
       ,ALL[=i][,BREVITY[=j]][,EXPAND[=k]&#93;>
       {,OUTFILE=l|,SUMMARY|,OUTFILE=l,SUMMARY};>
```

3. EXPLANATION OF MESSAGE

`AM` = Administration module (AM). The processor on which the relation, as specified in '`c`' or '`q`', was audited.

`CMP` = Communications module processor (CMP). The processor on which the relation, as specified in '`c`' or '`q`', was audited.

`CYCLE` = Audit cycle for the full audit. Valid value(s):

- `CUR` = Current (default).
- `PREV` = Previous.

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`ALL` = Indicates whether all warnings will be printed. If `ALL=N`, then only warnings that are not specified in the "prl_to_ignore" file will be printed. This file is explained in the Routine Operations and Maintenance manual. If this keyword is not specified or is specified without a value, the default is to print all warnings.

`BREVITY` = Indicates whether brevity control should be used when printing the contents of the audit error log(s). If this keyword is not specified or is specified without a value, the default is to print only the first ten instances where a particular check in the SODD audit is violated followed by a statement indicating how many additional instances were in error. This keyword is ignored if specified in conjunction with the SUMMARY keyword.

`EXPAND` = Indicates whether to expand population rule language (PRL) symbols in the error report. If this keyword is not specified or is specified without a value, the default is to expand some of the PRL symbols (not all symbols can be expanded) into their English equivalent. This keyword is ignored if specified in conjunction with the SUMMARY keyword.

`DAY` = Indicates the day(s) within the full audit cycle on which to report or the day within the incremental audit cycle on which to report.

`WEEK` = Indicates the week(s) within the full audit cycle on which to report. The WEEK is not a calendar week but rather a week in the full audit cycle (that is, if the cycle started on Wednesday and the following Tuesday's errors are to be printed, `WEEK=1` would be specified and not `WEEK=2`.) Various DAY/WEEK combinations include:

`DAY=[m],WEEK=[n]` = print the errors found on the specified day during the specified week of the full audit cycle.

`DAY=ALL,WEEK=[n]` = print the errors found on all days during the specified week of the full audit cycle.

`DAY=[m],WEEK=ALL` = print the errors found on the specified day during the entire full audit cycle.

`DAY=ALL,WEEK=ALL` = print the errors found during the entire full audit cycle.

`DAY=[m]` (no WEEK specified) = print the errors found on the specified day for the most recent week of the full audit cycle.

`DAY=ALL` (no WEEK specified) = print the errors found on all of the most recent days for the most recent week of the full audit cycle.

`RED` = For incremental audits, redundant (RED) indicates that a report will be generated based on the last iteration of the incremental audit on the transactions in the redundant log file.

`ALLPRC` = For incremental audits, all processors (ALLPRC) indicates that a report will be generated for all the switching modules, administration modules and communications module processors in the office.

`SUMMARY` = If specified without the OUTFILE keyword, only the count of errors found by the specified audit will be generated and printed to the ROP. If specified with the OUTFILE keyword, a detailed summary will be generated and written to the specified file under the /rclog/SODD/reports directory.

`a` = Telephone number that was audited.

`b` = Office equipment type and number that was audited.

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`c` = Relation that was audited, or "`ALL`" if all relations on a specific processor were audited.

`d` = Switching module that was audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relation, as specified in '`c`', was audited.

`e` = Multi-line hunt group that was audited.

`f` = Member of multi-line hunt group that was audited.

`g` = Trunk group number that was audited.

`h` = Member of trunk group number that was audited.

`i` = Output of warnings. Valid value(s):

`N`	= Print only warnings that are not specified in the "prl_to_ignore" file.
`Y`	= Print all warnings (default).

`j` = Brevity control for the printing of the audit error log(s). Valid value(s):

`N`	= Do not use brevity control.
`Y`	= Use brevity control (default).

`k` = Expand PRL symbols into their English equivalent in the error report. Valid value(s):

`N`	= Do not expand the PRL symbols into English.
`Y`	= Expand the PRL symbols into English (default).

`l` = A file with this name is created under /rclog/SODD/reports and the output is stored there. If a file with this name already exists, it is overwritten. Double quotes '`"`' should be used around variable '`l`' to preserve lower-case letters.

`m` = Report on a specific day or days within the full audit. Valid value(s):

`MON`	= Monday.
`TUE`	= Tuesday.
`WED`	= Wednesday.
`THU`	= Thursday.
`FRI`	= Friday.
`SAT`	= Saturday.
`SUN`	= Sunday.
`ALL`	= All days.

`n` = A single digit number indicating the number of weeks within the full audit cycle. Valid value(s):

`ALL`	= All weeks.

`o` = Switching module that was audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Specific processor on which the incremental audit took place.

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`p` = Report on a specific day within the incremental audit. The day is when the audit began execution and not when it finished. Valid value(s):

- `MON` = Monday.
- `TUE` = Tuesday.
- `WED` = Wednesday.
- `THU` = Thursday.
- `FRI` = Friday.
- `SAT` = Saturday.
- `SUN` = Sunday.

`q` = Name of modular feature type (MFT) or ALL.

`q` = Switching module that was audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relations associated with the MFT, as specified in '`q`', were audited.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an OP:AUD-ERRLOG output message.

5. REFERENCES

Input Message(s):

```
EXC:AUD-SODD
SCHED:AUD-SODD
```

Output Message(s):

```
OP:AUD-ERRLOG
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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OP:AUD-SODD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that one of the following be printed: the execution status of the static office-dependent data (SODD) audits; the full SODD audit's schedule; the status of the active SODD audit(s).

2. FORMAT

```
OP:AUD=SODD,{EXC|SCHED|AUDIT}
```

3. EXPLANATION OF MESSAGE

`EXC` = Print the execution status of the SODD audits.

`SCHED` = Print the full SODD audit's schedule.

`AUDIT` = Print the status of the active SODD audit(s).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an OP:AUD-SODD-EXC, OP:AUD-SODD-SCH or OP:AUD-SODD output message.

5. REFERENCES

Input Message(s):

```
EXC:AUD-SODD
SCHED:AUD-SODD
SET:AUD
CLR:AUD
```

Output Message(s):

```
OP:AUD-SODD-EXC
OP:AUD-SODD-SCH
OP:AUD-STATUS
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

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OP:AUD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Reports the status of one or more audits controlled by the system integrity monitor (SIM). The report may be requested for:

- All audit control records.
- All members associated with a specific audit.
- Selected members associated with a specific audit.

2. FORMAT

```
OP:AUD:{ALL|RUN|a[=b]|a=c,INS="d"};
```

3. EXPLANATION OF MESSAGE

`ALL` = Specifies all audits controlled by SIM.

`RUN` = Restricts the report to include only information for running audits.

`a` = Audit name. Administrative module (AM) audit names are listed in the APP:AUD appendix in the Appendixes section of the Input Messages manual.

If '`a`' is specified without '`b`', all members of the audit will be reported.

`b` = Member number. For a list of member numbers, refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual. May be specified as a single number or a list of numbers.

`c` = Single member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

`d` = Instance name.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:AUD
INH:AUD
```

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```
STOP:AUD
STP:AUD
```

Output Message(s):

```
OP:AUD
```

Input Appendix(es):

```
APP:AUD
APP:MEM-NUM-AUD
```

Output Appendix(es):

```
APP:AUD-D
```

Other Manual(s):
235-600-400 *Audits*

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OP:AUDERR

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Reports the error counts of one or more audits controlled by the system integrity monitor (SIM). The report may be requested for:

- All audits controlled by SIM.
- All members of a specific audit.
- Selected members of a specific audit.
- A specific instance of a specific member of a specific audit.

2. FORMAT

```
OP:AUDERR,{ALL|a=[b]|a=c,INS=d};
```

3. EXPLANATION OF MESSAGE

`a` = Audit name. Central processor or administrative module audit names are listed in the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

If '`a`' is specified without '`b`', all members of the audit will be reported.

`b` = Member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual for a list of member numbers. May be specified as a single number or a list of numbers. Refer to User Guidelines Rules of the Input Messages manual.

`c` = Single member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

`d` = Instance name.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
```

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```
AUD:FMGR
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
```

Output Message(s):

```
AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR1
AUD:FMGR2
AUD:FMGR3
AUD:FMGR4
AUD:FMGR5
AUD:FMGR6
AUD:FMGR7
AUD:FMGR8
AUD:FMGR9
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
OP:AUDERR
```

Input Appendix(es):

```
APP:AUD
APP:MEM-NUM-AUD
```

Other Manual(s):
235-600-400 *Audits*

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OP:AVAILLOG

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Reports how much disk space (in bytes) is left for logging recent changes and customer-originated recent changes. Both the amount of space allocated and the amount of space available are reported.

2. FORMAT

```
OP:AVAILLOG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The input message was not valid.

`PF` = Printout follows. Followed by an OP:AVAILLOG output message.

5. REFERENCES

Output Message(s):

`OP:AVAILLOG`

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40. OP:B

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OP:BCI

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the status of the blocked call indication (BCI) reporting feature.

2. FORMAT

```
OP:BCI;
```

3. EXPLANATION OF MESSAGE

No variables. For further information, refer to the Administration and Engineering Guidelines manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. The OP:BCI output message will follow.

5. REFERENCES

Input Message(s):

```
ALW:BCI
STP:BCI
```

Output Message(s):

```
OP:BCI
REPT:BCI
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:BHA

Software Release: 5E19(1) and later
Command Group: BHA
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the backhaul association (BHA) related information of a specified backhaul protocol handler (BPH) or summary BHA information of all the BPHs in a packet switch unit (PSU).

Format 1 requests the summary BHA information of all the BPHs in a PSU.

Format 2 requests the BHA related information of a specified BPH by optionally specifying protocol handler (PH) group, digital subscriber line (DSL) group or PSU ethernet (PSE) link with IP address, UDP port, or both. There are three kinds of information to be chosen: summary, history and detail. Optional key SUM is not valid with IPDEST, LOCPORT, HIST, and/or DETAIL.

WARNING: This input message can potentially output many segments of data which could severely affect operations at the technician control center. The STP:BHA input message can be used to terminate the output from this input message.

2. FORMAT

```
[1]    OP:BHA,PSU=a-b[,SUM];
```

```
[2]    OP:BHA,PHGRP=a-b-c|DSLG=a-b-d|PSELNK=a-b-e
         [,LOCPORT=f][,IPDEST=g][,HIST][,DETAIL]|[,SUM];
```

---

3. EXPLANATION OF MESSAGE

`DETAIL` = Detailed BHA traffic data.

`HIST` = History data on unprovisioned UDP ports.

`SUM` = Provide a summary only BHA report.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PH group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Logical PH number (0-79).

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e = Ethernet link number.

f BHA BPH local UDP protocol port number.

g = BHA BTS IP address.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:BHA output message.

NG = No good. May also include:
- OPTION = Options are not supported. OP:BHA input message is stopped.
- SM NOT AVAILABLE = SM is not available. OP:BHA input message is stopped.
- SYSTEM BUSY = There is another OP:BHA input message running. System busy. OP:BHA input message is stopped.

5. REFERENCES

Input Message(s):

STP:BHA

Output Message(s):

OP:BHA
STP:BHA

Input Appendix(es):

APP:RANGES

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OP:BICC

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the output of bearer independant call control (BICC) data matching the following specified characteristics:

A	the entire office
B	a specific OPC and DPC combination,
C	a OPC, DPC and a specific, range or all CICs, with an optional SM parameter described below,
D	an BICC group, with an optional SM parameter described below, or
E	an BICC group and a specific or range of BICC group members, with an optional SM parameter described below.
F	an BICC trunk group, with an optional SM parameter described below, or
G	an BICC trunk group and a specific or range of trunk group members, with an optional SM parameter described below.

Output formats [1] will include the BICC group numbers, OPC, and DPC, Signalling platform indicator, Base CIC and Total number of CIC blocks assigned to the Group. Output formats [2] through [7] will include the BICC group number(s), Member Range, CIC block SM number and the First CIC for the CIC block.

Only one OP:BICC request may be processed by the system at any moment; additional requests will be denied.

WARNING: Requesting this message may cause an enormous amount of data to be printed on the receive-only printer (ROP). The use of any format could cause a degradation in switch service depending upon the number and size of BICC groups.

The input message, STP:BICC, can be used to halt the printing of this input message should system operation be impacted by this message.

2. FORMAT

```
[1]    OP:BICC,OFFICE;

[2]    OP:BICC,OPC=a,DPC=b;

[3]    OP:BICC,OPC=a,DPC=b,CIC{=c[&&d]|,ALL}[,SM=k];

[4]    OP:BICC,BG=e[,SM=k];

[5]    OP:BICC,BGMN=e-f[&&g][,SM=k];

[6]    OP:BICC,TG=h[,SM=k];
```

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```
[7]    OP:BICC,TKGMN=h-i[&&j][,SM=k];
```

3. EXPLANATION OF MESSAGE

`ALL` = Search for BICC group members using a range of all possible CICs.

`a` = Origination point code (OPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

`b` = Destination point code (DPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

`c` = BICC Call Instance code (CIC) or the lower limit of a range of CICs. BICC CICs can range from 0 - 4294967294.

`d` = The upper limit of a range of BICC CICs.

`e` = BICC group (BG) number.

`f` = BICC group member number (BGMN) or the lower limit of a range of BICC group member numbers.

`g` = The upper limit of a range of BICC group member numbers.

`h` = BICC trunk group (TG) number.

`i` = BICC trunk group member number (TKGMN) or the lower limit of a range of BICC trunk group member numbers.

`j` = The upper limit of a range of BICC trunk group member numbers.

`k` = SM number. Search for trunks is restricted to specified SM. This option is allowed only for OPC/DPC/CIC, BG, BGMN, TG or TKGMN requests.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and an OP:BICC output message will follow.

`RL` = Retry later. Valid value(s):

- `FAILED TO CREATE PROCESS` = The process that would service the request could not be created, or did not receive the request, probably due to system load.
- `REQUEST ALREADY IN PROGRESS` = An OP:BICC request is already running. Only one request is allowed to run at a time.
- `TOO MANY PROCESSES ACTIVE` = A process to service the request cannot be created because the maximum number of active maintenance processes has been reached.

5. REFERENCES

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Input Message(s):

```
STP:BICC
```

Output Message(s):

```
OP:BICC
STP:BICC
```

Input Appendix(es):

```
APP:POINT-CODE
```

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OP:BICCBLK

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the output of bearer-independent call control (BICC) call instance code (CIC) block for the following information:

- Number of idle CICs,
- Number of busy CICs,
- Number of in-service CICs,
- Number of out-of-service (OOS) circuit administration (CADN),
- Number of blocked CICs,
- Number of resettting CICs,
- Number of CICs in the AUDIT state.

2. FORMAT

```
OP:BICCBLK,BGMN=a-b&&c;
```

3. EXPLANATION OF MESSAGE

`a` = SS7 BICC group number. Refer to APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The lower limit of a range of SS7 BICC group member numbers. The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127). The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).

`c` = The upper limit of a range of SS7 BICC group member numbers. The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127). The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and an OP:SS7 output message will follow.

`NG` = No good. May also include:

- `BAD CIC INPUT` = The craft entered a member range that is incorrect.
- `STARTING CIC NOT AT BEGINNING OF BLOCK` = The starting CIC is not at the beginning of a BICC CIC block.
- `RANGE OF CICS INCORRECT` = The ranges of CICs is not an exact BICC CIC block.

5. REFERENCES

Output Message(s):

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```
OP:BICCBLK
```

Input Appendix(es):

```
APP:RANGES
APP:POINT-CODE
```

Other Manual(s):

235-200-115 *CNI Common Channel Signaling*

235-200-116 *Signaling Gateway Common Channel Signaling*

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OP:BICCBMOVE

Software Release: 5E16(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the status of a Static Call Instance Code Allocation process.

2. FORMAT

```
OP:BICCBMOVE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

RL	= Retry later. The request is not currently running.
PF	= Printout follows. The request has been accepted. Followed by the OP:BICCBMOVE output message.

5. REFERENCES

Input Message(s):

```
EXC:BICCBMOVE
STP:BICCBMOVE
```

Output Message(s):

```
EXC:BICCBMOVE
OP:BICCBMOVE
```

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OP:BICCCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Determines whether the common channel signaling (CCS) automatic bearer independent call control (BICC) call instance code (CIC) query for CCS System 7 (CCS7) trunks is inhibited or allowed for the entire office, and the BICC CIC query start time.

2. FORMAT

```
OP:BICCCQ;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF	= Printout Follows. The request has been accepted and will be followed by an OP:BICCCQ output message.

5. REFERENCES

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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OP:BKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests the automated system backup schedule and/or content of backup option files to be displayed.

Format 1 is used to display the day (week or month), time of day, and name of the backup option file for each scheduled automated system backup.

Format 2 is used to display the day (week or month), time of day, name of the backup option file, and contents of the backup option file for each scheduled automated system backup.

Format 3 is used to display the content of a specified backup option file residing in the /no5text/bkup/autobkup directory.

2. FORMAT

```
[1]    OP:BKUP;

[2]    OP:BKUP:ALL;

[3]    OP:BKUP:DATA,FN="a";
```

3. EXPLANATION OF MESSAGE

`a` = Backup option file name. This file must reside in the /no5text/bkup/autobkup directory. This variable must not be specified as a full or relative pathname.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:BKUP output message.

5. REFERENCES

Input Message(s):

```
ALW:AUTOBKUP
CLR:BKUP
INH:AUTOBKUP
SCHED:BKUP
SET:BKUP
STP:AUTOBKUP
```

Output Message(s):

```
OP:BKUP
```

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Other Manual(s):

235-105-210 *Routine Operations and Maintenance Procedures*

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OP:BKUPSTAT

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Outputs all the ODD backup scheduled requests set by the previous BKUP:ODD messages.

2. FORMAT

```
OP:BKUPSTAT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The input request is not valid.
– `NO SCHEDULE REQUEST` = The input request is not valid.

`PF` = Printout follows. The request was accepted and the OP:BKUPSTAT output message will follow.

5. REFERENCES

Input Message(s):

```
ABT:ODDBKUP
BKUP:ODD
CLR:ODDBKUP
STP:ODDEVOL
```

Output Message(s):

```
OP:BKUPSTAT
```

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OP:BRCS-STATUS

Software Release: 5E15 and later
Command Group: BRCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To generate the information about the business and residential customer services (BRCS) feature audit progress.

WARNING: It is absolutely necessary to wait until all OP:BRCS-STATUS requests, currently being in progress, are completed, before retrofit can be started.

2. FORMAT

```
OP:BRCS:STATUS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows.

`NG` = No good. The request was denied.

5. REFERENCES

Input Message(s):

```
EXC:BRCS
STP:BRCS
```

Output Message(s):

```
EXC:BRCS
OP:BRCS-STATUS
```

Other Manual(s):
235-118-251 *Recent Change Procedures*
235-190-103 *BRCS Feature Description*

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OP:BREVC

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current output message brevity control (BREVC) status of one or all message class(es) (MSGCLS).

2. FORMAT

```
OP:BREVC[,MSGCLS=a];
```

3. EXPLANATION OF MESSAGE

`a` = Valid message class.
Note: If no MSGCLS is specified, all MSGCLS for which the current status is "INH" will be printed.

4. SYSTEM RESPONSE

`PF` = Printout follows. An OP:BREVC output message follows in response to the request.

5. REFERENCES

Input Message(s):

```
ALW:BREVC
INH:BREVC
OP:LPS
OP:SYSSTAT
```

Output Message(s):

```
OP:BREVC
OP:LPS
```

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41. OP:C

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OP:C7NET

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests a formatted display of the routing data in the cluster, member, and load share tables of the common network and for the signaling connection control part (SCCP) subsystem bit map. This is very useful in testing and monitoring the common channel signaling (CCS) traffic management code that updates these tables.

This input message provides a means for printing a formatted display of the routing data in the cluster, member and load share tables, and the timer status for the message transfer part (MTP) signaling point restart procedure.

2. FORMAT

```
[1]    OP:C7NET:PCLU=n-b-o[,DEST=d];

[2]    OP:C7NET:e[,DEST=d];

[3]    OP:C7NET:PLS=g[,DEST=d];

[4]    OP:C7NET:PREG=i[,DEST=d];

[5]    OP:C7NET:PMEM=n-b-o-p[,DEST=d];

[6]    OP:C7NET:STATES=n-b-o-p[,DEST=d];

[7]    OP:C7NET:SSINFO=q[,DEST=d];

[8]    OP:C7NET:PRN=n[,DEST=d];

[9]    OP:C7NET:PIDX=n-o-p[,DEST=d];

[10]   OP:C7NET:r=s[,DEST=d];

[11]   OP:C7NET:PIDXMEM=t[,DEST=d];

[12]   OP:C7NET:PFL=a-f[,DEST=d];

[13]   OP:C7NET:PFRNG=a-h-j[,DEST=d];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`PCLU` = This message prints data about a cluster. If the cluster routing type is populated (POPCLU), then any exceptional or static members are also printed.

`PFRNG` = Print a range of integers, each representing marked free elements for the particular table.

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`PIDX` = Print the indexing information in the nonlocal paging tables for a particular nonlocal point code.

`PIDXMEM` = Print the member level routing data indicated by index.

`PLS` = Print link set information about the ring node addresses (RNAs) that are actively being used for routing per link set, all equipped link sets and the current link set relations.

`PMEM` = Given the network identifier, cluster and member number, will print member data.

`PREG` = Print all cluster level data and any abnormal member level data in this region.

`PRN` = Print the cluster and member routing data for a particular network identifier.

`SSINFO` = Print data about the given local subsystem.

`STATES` = This option will give the status of subsystems for a given point code.

`a` = Table name (either pa=>cNpage_access, mp=>cNmem_pages or mem=>cNn1_mem).

`b` = Valid value(s):

`Region`
`Cluster`

Note: The region value is optional and will not be used if the *ANSI*® point code format is being used.

`c` = The cluster when the *ANSI*® point code format is being used.

`d` = For all formats the DEST parameter is optional. When using this parameter the printing destination (variable '`d`') must be supplied. The default is the receive-only printer (ROP).

`e` = Valid value(s):

`ABNORMAL` = This option will print the status of common channel signaling system 7 (CCS7) signaling routes that have members that are unavailable, restricted, congested, or subsystems that are prohibited.

`DEBUGOFF` = This option turns off the SCCP debug flag.

`DEBUGON` = This option turns on the SCCP debug flag.

Caution: This input message may clutter the ROP with messages. Use under the direction of your customer support group.

`GTXTAB` = This option prints the contents of the c7gtxtab table, which is a structure that is used when determining what translator to use for a global title translated message.

`LOCPC` = This option prints the local point code.

`PNID` = This option prints the network identifier data. For all networks that are assigned, the network level information are printed.

`PRTE` = Prints all the current routing data and any abnormal member routing data. This includes all point codes that do not have normal routing status (such as TFX or congestion) and all point codes that are a part of the test network.

`PMTP` = Prints timer status for the MTP signaling point restart procedure.

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`f` = Length of elements.

`g` = Linkset.

`h` = Starting index.

`i` = Region.

`j` = Ending index.

`k` = Region of cluster number.

Note: The region value is optional and will not be used if the *ANSI®* point code format is being used.

`l` = The cluster or member. If the *ANSI®* point code format is being used the cluster value must be supplied here, otherwise the member value must be here.

`m` = This will be the member value only when the *ANSI®* standard point code format is being used.

`n` = The network identifier.

`o` = Valid value(s):

`Member`
`Cluster`

Note: The member value is optional and will be used here if the *ANSI®* point code format is being used.

`p` = The member when the *ANSI®* point code format is not being used.

`q` = Subsystem number.

`r` = Valid value(s):

`PIDXNM` = Print the nonlocal routing data indicated by index.
`PIDXPA` = Print the entry in the cNpage_access table indicated by index.

`s` = Index number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Index number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request could not be completed. May also include:

```
- INVALID KEYWORD FOR C7NET
- INVALID LINKSET NUMBER
```

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```
- INVALID SUBSYSTEM NUMBER
- MISSING THE MEMBER FOR C7NET
- MISSING THE SUBSYSTEM NUMBER FOR C7NET
- NETWORK IDENTIFIER OUT OF RANGE
- NO LINKSET NUMBER SUPPLIED TO PLS REQUEST
- NON NUMERIC CLUSTER
- NON NUMERIC LINKSET NUMBER
- NON NUMERIC MEMBER
- NON NUMERIC NETWORK IDENTIFIER FOR C7NET
- NON NUMERIC PRINTING DESTINATION
- NON NUMERIC SUBSYSTEM NUMBER
- OUT OF RANGE CLUSTER
- OUT OF RANGE MEMBER
- UNEXPECTED INPUT TO C7NET
```

`PF` = Printout follows. Followed by the OP:C7NET output message.

5. REFERENCES

Output Message(s):

`OP:C7NET`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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OP:CA2IPMAP

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a mapping of packet switching unit (PSU) community addresses (CA) to internet protocol (IP) addresses for IP soft hand-off (SHO) network connections within a given cluster or office.

The report will contain the PSU subnetwork (SN), PSU CA, IP address, IP traffic state and indications of whether the IP address is locally or remotely defined.

2. FORMAT

```
OP:CA2IPMAP[,CLUSTER=a][,OFFICE=b];
```

3. EXPLANATION OF MESSAGE

`a` = Cluster name.

`b` = Office name.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more OP:CA2IPMAP output messages.

`NG` = No good. May also include:
- `CLUSTER NOT PROVISIONED` = The request has been denied. The message is valid but the cluster is not provisioned.
- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- `OFFICE NOT PROVISIONED` = The request has been denied. The message is valid but the office is not provisioned.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The request has been denied. The message is valid but the CMP is not available.

5. REFERENCES

Output Message(s):

```
OP:CA2IPMAP
QRY:CA2IPMAP
UPD:CA2IPMAP
```

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Input Appendix(es):

```
APP:RANGES
```

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OP:CALLMON

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the OP:CALLMON output message be generated.

2. FORMAT

```
OP:CALLMON;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:CALLMON output message.

5. REFERENCES

Input Message(s):

```
ALW:CALLMON
CLR:CALLMON
INH:CALLMON
RTR:CALLMON
SET:CALLMON
```

Output Message(s):

```
OP:CALLMON
REPT:CALLMON-CMR
REPT:CALLMON-VTC
```

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OP:CAMPON-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of the trunks, lines, data links, and Operator Services Position System Ports (OSPSPORTs) that are currently camped on due to a manual request to remove or restore that trunk, line, data link, or OSPSPORT (RMV:TRK, RST:TRK, RMV:LINE, RST:LINE, RMV:DATALINK, RST:DATALINK, RMV:OSPSPORT, RST:OSPSPORT). Trunks, lines, data links, and OSPSPORTs which are camped on for other reasons (such as circuit diagnostics, etc.) will not be identified by this request.

The STP:CAMPON input message can be used to stop an in-progress campon.

2. FORMAT

```
OP:CAMPON;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Output message OP:CAMPON list will follow.
RL	= Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
STP:CAMPON
```

Output Message(s):

```
OP:CAMPON
REPT:CAMPON
STP:CAMPON
```

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OP:CAMPON-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of the trunks, lines, data links, and Operator Services Position System Ports (OSPSPORTs) that are currently camped on due to a manual request to remove or restore that trunk, line, data link, or OSPSPORT (RMV:TRK, RST:TRK, RMV:LINE, RST:LINE, RMV:DATALINK, RST:DATALINK, RMV:OSPSPORT, RST:OSPSPORT). Trunks, lines, data links, and OSPSPORTs which are camped on for other reasons (such as circuit diagnostics, and so forth) will not be identified by this request.

The STP:CAMPON input message can be used to stop an in-progress campon.

2. FORMAT

```
OP:CAMPON;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Output message OP:CAMPON list will follow.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
STP:CAMPON
```

Output Message(s):

```
OP:CAMPON
REPT:CAMPON
STP:CAMPON
```

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OP:CCS-ACDPC

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the linkset or combined linkset servicing each accessible destination point code (DPC) for the common channel signaling (CCS) global switching module (GSM).

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
OP:CCS,ACDPC[,SM=a];
```

3. EXPLANATION OF MESSAGE

`a` = GSM number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `NEED GSM NUMBER` = GSM was not specified in the input message, and the office has more than one GSM provisioned.
- `SYSTEM BUSY` = Resources unavailable to process request.

`PF` = Printout follows. Followed by the OP:CCS-ACDPC output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the GSM is not accessible.

5. REFERENCES

Output Message(s):

`OP:CCS-ACDPC`

Other Manual(s):

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235-190-120 *Common Channel Signaling Service Features*

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OP:CCS-ACTLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the number of currently active (in service) member(s) in each signaling linkset on a common channel signaling (CCS) global switching module (GSM).

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
OP:CCS,ACTLK[,SM=a];
```

3. EXPLANATION OF MESSAGE

`a` = Global switching module (GSM) number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `NEED GSM NUMBER` = GSM was not specified in the input message, and the office has more than one GSM provisioned.

`PF` = Printout follows. Followed by the OP:CCS-ACTLK output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the GSM is not accessible.

5. REFERENCES

Output Message(s):

```
OP:CCS-ACTLK
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)

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OP:CCS-CLS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status information of all members of one or more combined link sets (CLSs) on a given common channel signaling (CCS) global switching module (GSM).

Note: This input message is applicable only for PSU platform CCS7.

2. FORMAT

```
OP:CCS,CLS[,SET=a[&&b]][,SM=c];
```

3. EXPLANATION OF MESSAGE

`a` = Combined link set (CLS) number or lower limit of a range of CLS numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped CLS numbers. The default is all combined link sets.

`b` = Upper limit of a range of CLS numbers.

`c` = Global switching module (GSM) number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `NEED GSM NUMBER` = GSM was not specified in the input message, and the office has more than one GSM provisioned.

`PF` = Printout follows. An OP:CCS-CLS output message follows in response to the request

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

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Output Message(s):

```
OP:CCS-CLS
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)

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OP:CCS-DPCLS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a report of the destination point codes (DPCs) currently served by a specified SS7 linkset or combined linkset on a common channel signaling (CCS) global switching module (GSM).

Note: This input message is applicable only for PSU platform CCS7.

2. FORMAT

```
OP:CCS,DPCLS,SET=a[,SM=b];
```

3. EXPLANATION OF MESSAGE

`a` = Linkset or combined linkset (CLS) number for which served DPCs are to be displayed. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The linkset or CLS number must be specified. There is no default to provide data for all link sets in the office.

`b` = Global switching module (GSM) number. Common channel signaling (CCS) GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. NG acknowledgements are used when the syntax of a message is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. May also include:

- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NEED GSM NUMBER` = GSM was not specified in the input message, and the office has more than one GSM provisioned.
- `SYSTEM BUSY` = Resources unavailable to process request.

`RL` = Retry later. May also include:

- `DATA BEING UPDATED` = The input message cannot be processed because the relations that contain the status of DPCs are being updated either by traffic diversion terminal process or by audits.
- `MSG NOT SENT TO CLIENT PROC.` = The input message cannot be processed because the signaling traffic route and management (STRM) system process failed to create the terminal process.

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- `SM DATA CURRENTLY NOT AVAILABLE` = The input message cannot be processed because the requested data is currently not available for processing.
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.

`PF` = Printout follows. Followed by the OP:CCS-DPCLS output message.

5. REFERENCES

Output Message(s):

`OP:CCS-DPCLS`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)

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OP:CCS-GSM

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests Common Channel Signaling Link (CCSLK) and internal CCS Message Transport (CMT) summary status on one/more Global Switching Modules (GSMs).

2. FORMAT

```
OP:CCS,GSM[,SM=a];
```

3. EXPLANATION OF MESSAGE

`a` = GSM number. Data for a single GSM may be requested, or the default is all GSMs in the office. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = The request has been accepted. Followed by the OP:CCS,GSM output message.

`RL - SM NOT AVAILABLE` = The SM is not available, due to initialization or isolation. The craft should retry later.

`NG - GSM MISMATCH` = The specified SM is not a GSM, or the SM is not equipped in the office.

`NG - NO GLOBAL SM IN OFFICE` = No GSM is provisioned in the office.

5. REFERENCES

Output Message(s):

`OP:CCS-GSM`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-200-116 *5ESS Switch Signaling Gateway Common Channel Signaling*

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OP:CCS-LSCLS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Generates the report of the combined link set of which a given link set is a member.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
OP:CCS,LSCLS[,LS=a[&&b]][,SM=c];
```

3. EXPLANATION OF MESSAGE

`a` = Link set (LS) number or lower limit of a range of LS numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped LS numbers. The default is all of the link sets.

`b` = Upper limit of a range of equipped LS numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Global switching module (GSM) number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NO GLOBAL SM` = No GSM is provided in the office.
- `NEED GSM NUMBER` = GSM was not specified in the input message, and the office has more than one GSM provisioned.

`PF` = Printout follows. Followed by the OP:CCS-LSCLS output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

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Output Message(s):

```
OP:CCS-LSCLS
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)

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OP:CCS-MON

Software Release: 5E16(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the monitoring action to be turned on, turned off, or the status of links and/or members and/or Flow Control Management (FCM) and/or Traffic Flow Management (TFM) for specified monitoring masks (or a combination thereof).

2. FORMAT

```
[1]    OP:CCS,MON,REQTYPE={ON|OFF|STATUS}[,GSM=a][,LS=b][,MEMBER=c][,MASK=d];

[2]    OP:CCS,MON,REQTYPE={ON|OFF|STATUS}[,GSM=a][,FCM][,TFM];
```

3. EXPLANATION OF MESSAGE

`FCM` = Monitoring issued for FCM.

`TFM` = Monitoring issued for TFM.

`a` = Specific common channel signaling (CCS) global switching module (GSM) number. If this parameter is not specified, then request is applied to all GSM(s), all linksets and all members on the GSM(s).

`b` = Report for specified signaling linkset. If this parameter is not specified, then request is applied to all linkset(s) and all members of these linksets. The parameter MEMBER will be ignored in this case.

`c` = Link member number. If this parameter is not specified, then request is applied to all link members of the given linkset. Refer to the APP:RANGES appendix.

`d` = Event mask. A default value of h'c0554, will be used if no value is specified with the request. Event masks for more specific needs may be formed by "OR-ing" values. Valid value(s):

- `h'00004` = CCS7 link failure events.
- `h'00010` = CCS7 Link restoration events.
- `h'00040` = CCS7 network messages(except TFx).
- `h'00100` = CCS7 TFx events.
- `h'00400` = Manual out-of-service events.
- `h'40000` = Changeover events
- `h'80000` = Changeback events

Note : If brevity control is on, some of the reports might be lost. Brevity control can be inhibited to report all events on the ROP.

4. SYSTEM RESPONSE

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`NG` = No good. May also include:
- `INVALID/NONPROVISIONED LINKSET` = This linkset not provisioned on the specified GSM.
- `INVALID/NONPROVISIONED MEMBER` = This member not provisioned in the specified LS.
- `INVALID MASK REQUESTED` = Refer to APP:PSU-SIG-MON appendix in the Appendixes section of the Output Messages manual for the list of valid masks for monitoring purposes.
- `SM NOT EQUIPPED` =The specified GSM is not equipped.

`OK` = The input message has been accepted. May also include:
- `REQUEST ACCEPTED` = The request has been accepted.

`PF` = Printout follows. The request has been accepted and an REPT:CCS-MON output message will follow.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = The specified GSM is not accessible.

5. REFERENCES

Output Message(s):

```
OP:CCS-MON
REPT:CCS-MON
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-200-116 *Signaling Gateway Common Channel Signaling*

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OP:CCS-OPC

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests information about originating point codes that are provisioned:
- in the office.
- only as primary point codes (PC).
- with a specific PC.
- in the office for common network interface (CNI), with an optional PRIMARY parameter described below.
- in the office for a specific global switching module (GSM), with an optional PRIMARY parameter described below.
- in the office for all GSMs, with an optional PRIMARY parameter described below.

2. FORMAT

```
OP:CCS,OPC,[CNI|GSM={b|ALL}|PC=a][,PRIMARY];
```

3. EXPLANATION OF MESSAGE

`PRIMARY` = Print only the primary point codes provisioned in the office.

`a` = Specific point code (ANSI or AT&T format). Refer to the APP:POINT-CODE appendix in the Appendixes section of the Output Messages manual for interpretation.

`b` = Common channel signaling (CCS) global switching module (GSM) number or `ALL` to pint all GSMs provisioned in the office.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and an OP:CCS-OPC output message will follow.

`NG` = No good. The syntax of a message is valid, but the message has been denied. May also include:
- `INVALID GSM SPECIFIED` = Invalid GSM number specified by the craft.
- `INVALID PC SPECIFIED` = Invalid point code specified by the craft.
- `NO CNI IN THE OFFICE` = No CNI signaling platform in the office.
- `NO GSM IN THE OFFICE` = No GSM is provisioned in the office.
- `NO SS7 SIGNALING AVAILABLE` = No SS7 signaling is available in the office.

5. REFERENCES

Output Message(s):

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```
OP:CCS-OPC
```

Other Manual(s):

Common Channel Signaling Service Features

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OP:CCS-ROUTE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the routing status for:

- one network, a range of networks, or ALL networks be reported based on the network route set. No 'SM=' field on the command line implies request for ALL GSMs.
- one cluster, a range of clusters, or ALL clusters be reported based on the cluster route set. No 'SM=' field on the command line implies request for ALL GSMs.
- one destination point code (DPC), a range of DPCs, or ALL DPCs be reported based on the member route set. No 'SM=' field on the command line implies request for ALL GSMs.
- one destination point code. If a member, cluster, or network route set is provisioned it's information shall be reported. If no member, cluster, or network route set is provisioned an error condition shall be reported.
- those route sets with restricted, prohibited, inaccessible and/or congested routes be reported. No 'SM=' field on the command line implies request for ALL GSMs.
- reports ALL networks, ALL clusters, ALL DPCs. No 'SM=' field on the command line implies request for ALL GSMs.

If no member, cluster, or network route set is provisioned an error condition shall be reported.

2. FORMAT

```
[1]    OP:CCS,ROUTE,NETWORK,[NETID=a[&&b]][,SM=h];

[2]    OP:CCS,ROUTE,CLUSTER,[CLUID=c[&&d]][,XLIST][,SM=h];

[3]    OP:CCS,ROUTE,DPC,[DPCVAL=e[&&f]][,SM=h];

[4]    OP:CCS,ROUTE,DPCID=g[,SM=h];

[5]    OP:CCS,ROUTE,ABNORMAL[,SM=h];

[5]    OP:CCS,ROUTE,ALLRTE[,SM=h];
```

3. EXPLANATION OF MESSAGE

`ALL` = Report for all networks, clusters, or DPCs.

`XLIST` = Dynamic x-lists within the cluster route set.

`a` = Network number or the lower limit of a range of networks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The upper limit of a range of networks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Cluster number or the lower limit of a range of clusters (ANSI or AT&T format). Refer to the

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APP:RANGES appendix in the Appendixes TRUNK & LINE MAINT section of the Input Messages manual.

`d` = The upper limit of a range of clusters (ANSI or AT&T format). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Destination point code (DPC) number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

`f` = The upper limit of a range of DPCs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = A single DPC number.

`h` = Specific common channel signalling (CCS) global switching module (GSM) number from which the data is desired.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the OP:CCS-ROUTE output message. May also include:
- `MSG SENT TO SOME GSMS` = Printout follows for GSMs the message has been sent to. The message could not be sent to all GSMs. Followed by the OP:CCS-ROUTE output message.

`NG` = No good. May also include:
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `SYSTEM BUSY` = Resources unavailable to process request.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.
- `GSM(S) UNAVAILABLE` = Command cannot be processed fully because some GSMs are not accessible.
- `NO GSMS AVAILABLE` = Command cannot be processed because the GSMs are not accessible.

5. REFERENCES

Input Message(s):

```
STP:CCS-ROUTE
```

Output Message(s):

```
OP:CCS-ROUTE
STP:CCS-ROUTE
```

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Input Appendix(es):

```
APP:RANGES
APP:POINT-CODE
```

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

OP:CCS-SCMG

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status information for one or more signaling connection control part (SCCP) subsystem(s) at one or more destination point codes (DPCs).

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
OP:CCS,SCMG,SM=a[,DPCID=b[&&c]][,SSN=d[&&e]][,STATUS=f][,COUNT=g];
```

3. EXPLANATION OF MESSAGE

`a` = Global switching module (GSM) number. CCS GSM number from which the data is desired.

`b` = DPC or lower limit of a range of DPCs on which the subsystem(s) in question reside. When a range is specified, only equipped numbers in the range will be processed. If the DPC is not specified, a report will be generated for all DPCs.

Note: The value must be entered as a 9 digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual for interpretation.

`c` = Upper limit of a range of DPCs.

`d` = SCCP subsystem number or lower range of subsystem numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If the subsystem number is not entered, a report will be generated for all subsystem numbers.

`e` = Upper limit of a range of SCCP subsystem numbers.

`f` = Subsystem status. Valid value(s):

`ALW`	= Display only allowed subsystems.
`PROH`	= Display only prohibited subsystems.

If the status is not specified, both allowed and prohibited subsystems will be displayed.

`g` = The maximum number of DPCs for which output is to be generated. The allowed range is 1 to 2048, with a default of 10.

4. SYSTEM RESPONSE

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`NG` = No good. NG acknowledgements are used when the syntax of a message is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. May also include:
- `SCCP NOT RUNNING ON SM` = SCCP is not running on the specified SM.
- `SM SPECIFIED NOT GSM` = The SM specified is not a GSM or SM does not exist.
- `DPC OUT OF RANGE` = DPCID specified is outside the range of valid values.
- `INVALID DPC` = DPCID specified is not provisioned.

`PF` = Printout follows. Followed by the OP:CCS-SCMG output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the GSM is not accessible.

5. REFERENCES

Output Message(s):

`OP:CCS-SCMG`

Input Appendix(es):

`APP:RANGES`
`APP:POINT-CODE`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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OP:CCS-SLS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a display of the normal and current signaling link selection (SLS) distributions for all links currently carrying traffic to the specified destination point code (DPC) or a display of the normal and current SLS distribution of a link for a specific linkset (LS) or combined linkset (CLS) specified.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
OP:CCS,SLS[,SM=a]{,DPCID=b | SET=c};
```

3. EXPLANATION OF MESSAGE

`a` = Global switching module (GSM) number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

`b` = Specified DPC.

Note: The value must be entered as a 9 digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual for interpretation.

`c` = Specific LS or CLS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `NEED GSM NUMBER` = SM was not specified in the input message, and the office has more than one GSM provisioned.
- `SYSTEM BUSY` = Resources unavailable to process request.

`PF` = Printout follows. Followed by the OP:CCS-SLS output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.

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5. REFERENCES

Output Message(s):

```
OP:CCS-SLS
```

Input Appendix(es):

```
APP:RANGES
APP:POINT-CODE
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)

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OP:CCS-TPC

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the translation point code (TPC) for a single or range of translation types to be displayed.

Note: This input message is applicable only for the packet switching unit (PSU) platform CCS7.

2. FORMAT

```
OP:CCS,TPC,TYPE={a[&&b]} [,SM=c];
```

3. EXPLANATION OF MESSAGE

`a` = A single translation type or lower limit of a range of translation types. The translation type has a range of 1-256. A single translation type or lower limit of a range of translation types is required.

`b` = The upper limit of a range of translation types.

`c` = The common channel signaling (CCS) global SM (GSM) number that the request is to be routed. This is an optional field if there is only one GSM in the office. It is a required field if there is more than one GSM in the office.

4. SYSTEM RESPONSE

`NG` = No good. The syntax of a message is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. May also include:
- `MULTIPLE SM's - SINGLE SM PARAMETER REQUIRED` = There is more than one GSM provisioned in the office.
- `NO GSM WITH C7NATL IN THE OFFICE` = There are no GSM with CCS provisioned in the office.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.
- `SCCP NOT AVAILABLE ON GSM` = SCCP is not running on this SM.
- `SYSTEM BUSY` = Resources unavailable to process request.

`PF` = Printout follows. The request has been accepted and is followed by an OP:CCS,TPC output message.

5. REFERENCES

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Output Message(s):

```
OP:CCS-TPC
```

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OP:CCSCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Determines whether the common channel signaling (CCS) automatic circuit query for CCS7 trunks is inhibited or allowed for the entire office, and the circuit query start time.

2. FORMAT

```
OP:CCSCQ;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted, and will be followed by an OP CCSCQ output message.

5. REFERENCES

Input Message(s):

```
ALW:CCSCQ
EXC:CCSCQ
INH:CCSCQ
STP:CCSCQ
OP:JOBSTATUS
```

Output Message(s):

```
EXC:CCSCQ
OP:CCSCQ
STP:CCSCQ
OP:JOBSTATUS
```

Other Manual(s):

235-190-120 *Common Channel Signaling Service Features*

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OP:CFGSTAT-AM-A

Software Release: 5E15 - 5E16(1)
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests output of configuration status information for administrative module (AM) hardware units. This request may optionally be constructed to output the status of a single unit, a list of units with a specified name and maintenance state, a list of all units with a particular maintenance state, or a list of all sub-devices of a specified complex.

2. FORMAT

```
OP:CFGSTAT[:a][,{b[=c][,d=e]}];
```

3. EXPLANATION OF MESSAGE

`a` = One of the following maintenance state definitions:

`ACT`	= Active.
`GROW`	= Being grown.
`INIT`	= Initializing.
`OFL`	= Off-line.
`OOS`	= Out-of-service.
`STBY`	= Standby.
`UNAV`	= Unavailable.
`UNEQIP`	= Unequipped.

If specified, then only units in that maintenance state specified will be listed.

`b` = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`d` = Subunit name if b=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

`e` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by OP:CFGSTAT output message.

`RL` = Retry later.

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5. REFERENCES

Input Message(s):

```
OP:ACT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP
```

Output Message(s):

```
OP:ACT
OP:CFGSTAT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

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OP:CFGSTAT-AM-B

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests output of configuration status information for administrative module (AM) hardware units. This request may optionally be constructed to output the status of a single unit, a list of units with a specified name and maintenance state, a list of all units with a particular maintenance state, or a list of all sub-devices of a specified complex.

2. FORMAT

```
OP:CFGSTAT[:a][,{b[=c][,d=e]}][:f=g];
```

3. EXPLANATION OF MESSAGE

a = Maintenance state. Valid value(s):

ACT	= Active.
GROW	= Being grown.
INIT	= Initializing.
OFL	= Off-line.
OOS	= Out-of-service.
STBY	= Standby.
UNAV	= Unavailable.
UNEQIP	= Unequipped.

If specified, then only units in the maintenance state specified will be listed.

b = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

d = Subunit name if variable 'b' equals "CU". AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

e = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

f = Device name.

VTTY	= Virtual teletypewriter (TTY).
VTTYC	= Virtual TTY controller.
VIOP	= Virtual input/output processor (IOP).

g = Device number. Valid value(s):

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If 'f' =	then 'g' =
VTTY	0-255
VTTYC	0-15
VIOP	0

4. SYSTEM RESPONSE

PF = Printout follows. Followed by OP:CFGSTAT output message.

RL = Retry later.

5. REFERENCES

Input Message(s):

OP:ACT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP

Output Message(s):

OP:ACT
OP:CFGSTAT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP

Input Appendix(es):

APP:MEM-NUM-CU
APP:MEM-NUM-UNIT

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OP:CFGSTAT-CM-A

Software Release: 5E15 - 5E16(1)
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the configuration status of the specified communications module (CM) unit. Configuration requests of QPIPEs, QLNKs, and ISMQLNKs associated with the quad link packet switch (QLPS) in a network are available using the OP:QNETSTAT input message.

Format 1 requests the configuration status of the specified CM unit, regardless of its current maintenance state.

Format 2 requests the configuration status of the specified CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state.

Format 3 requests the configuration status of all CM units that are in the specified maintenance state.

Format 4 requests the configuration status of all unavailable CM units. If the NOGRO option is specified, units in the growth state are not included.

Format 5 requests the configuration status of all CM units or all out-of-service (OOS) CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state.

2. FORMAT

```
[1]    OP:CFGSTAT,{MSGS=a|MSCU=a|CMP=a-b|MMP=a-b|FPC=a|PPC=a|QGP=a-j|
       QGL=a-j-b|ONTC=c|ONTCCOM=c|TMSLNK=c-g[&&h]|QLPS=c-k|
       QTMSLNK=c-k-b|NCREF,XC=c|NCREF,PRIM=c|NCREF,SEC=c|NCREF,
       REFn=c[,TYPE=n]|NCOSC=c|OSCXC=c|CLNK=d-c-f-a|DLI=d[&&e]|NC=c};

[2]    OP:CFGSTAT,{MSGS=a|ONTC=c|DLI=d[&&e]-c|NLI=d-i-c
       |TMSLNK=c-g[&&h]},{NOFE|NOGRO};

[3]    OP:CFGSTAT,CM,{ALL|ACT|FRC|OOS|PWRALM|PWROFF|STBY|UNAV};

[4]    OP:CFGSTAT,CM,UNAV[,NOGRO];

[5]    OP:CFGSTAT,CM[,ALL|OOS],{NOGRO|NOFE};
```

3. EXPLANATION OF MESSAGE

`ACT` = Report on units that are in an active state.

`ALL` = Report status of CM/QLPSNW units of all states.

`CLNK` = Communication link.

`CMP` = Communication module processor.

`DLI` = Dual link interface. Not valid for SM-2000.

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FPC = Foundation peripheral controller.

FRC = Report on unit that are in a forced active state.

MMP = Module message processor.

MSCU = Message switch control unit.

MSGS = Message switch.

NC = Network clock model 3 (NC3).

NCOSC = Network clock oscillator.

NCREF,PRIM = Network clock primary reference. The office is equipped with network clock 1 (NC1).

NCREF,REFn = Network clock reference number 'n', where n = 1-8. The office is equipped with network clock 2 (NC2) or network clock 3 (NC3).

NCREF,SEC = Network clock secondary reference. The office is equipped with network clock 1 (NC1).

NCREF,XC = Network clock cross-couple reference. Not valid for network clock 3 (NC3).

NLI = Network link interface. Valid for SM-2000 only.

NOFE = Report on units that are not OOS family of equipment. When specified, this option prevents the listing of circuits that are OOS family-of-equipment (FE).

NOGRO = Report on units that are no growth. When specified, this option prevents the listing of circuits in growth states.

ONTC = Office network and timing complex.

ONTCCOM = Office network and timing complex (ONTC) common controller.

OOS = Report on units that are in an out-of-service state.

OSCXC = Oscillator cross-couple. Not valid for network clock 3 (NC3).

PPC = Pump peripheral controller.

PWRALM = Report on units that are in a power alarm state.

PWROFF = Report on units that are in a power off state.

QGL = Quad-link gateway link.

QGP = Quad-link gateway processor.

QLPS = Quad-link packet switch.

QTMSLNK = Quad-link packet switch (QLPS) time multiplexed switch link.

STBY = Report on units that are in a standby state.

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`TMSLNK` = Time multiplexed switch link.

`UNAV` = Report on units that are in a forced unavailable state.

`a` = MSGS side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Switching module (SM)/SM-2000 number, or lower limit of a range of SM/SM-2000 numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Upper limit of a range of SM/SM-2000 numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = MMP unit number associated with the specified CLNK. Valid value(s):

- `0` = MMP that handles the even control time slot associated with the SM/SM-2000.
- `1` = MMP that handles the odd control time slot associated with the SM/SM-2000.

`g` = Time multiplexed switch (TMS) link number, or lower limit of a range of link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Upper limit of a range of TMS link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = NLI number.

`j` = QGP number.

`k` = QLPS number.

`l` = Source SM/SM-2000 number. Default is report status of all units associated with all end points. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Destination SM/SM-2000 number. Default is report status of QLNKs and ISMQLNKs to all other end points from specified source end point. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Reference type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. The values are:

- `10M` = 10 MHz analog clock reference.
- `2M` = 2.048 MHz analog clock reference.
- `CC` = 64 KHz Composite clock Reference.
- `DGTL` = Digital clock reference.

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4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. An OP:CFGSTAT-CM output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:QNETSTAT

Output Message(s):

OP:CFGSTAT-CM
OP:CFGSTAT-QN

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1200,X (SMX DLI/NLI SUMMARY)
1209 (ONTC 0 & 1)
1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)
1220 (TMS 0 & 1 LINK SUMMARY)
1221/31 (TMS 0/1 LINKS 2-63)
1222/32 (TMS 0/1 LINKS 64-127)
1223/33 (TMS 0/1 LINKS 128-191)
1224/34 (TMS 0/1 LINKS 192-255)
1225/35 (TMS 0/1 LINKS 256-319)
1226/36 (TMS 0/1 LINKS 320-383)
1227/37 (TMS 0/1 LINKS 384-447)
1228/38 (TMS 0/1 LINKS 448-511)

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1240/50 (MSGS 0/1 SUMMARY)
1241/51 (MSGS 0/1 COMMUNITIES 0-1,8-9)
1242/52 (MSGS 0/1 COMMUNITIES 2-7)
1243/53 (MSGS 0/1 COMMUNITIES 10-15)
1380/1 (QLPS NETWORK 0/1 STATUS)
1900,X (SMX CLNKs)

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OP:CFGSTAT-CM-B

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the configuration status of the specified communications module (CM) unit. Configuration requests of QPIPEs, QLNKs, and ISMQLNKs associated with the quad link packet switch (QLPS) in a network are available using the OP:QNETSTAT input message.

Format 1 requests the configuration status of the specified CM unit, regardless of its current maintenance state.

Format 2 requests the configuration status of the specified CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state.

Format 3 requests the configuration status of all CM units that are in the specified maintenance state.

Format 4 requests the configuration status of all unavailable CM units. If the NOGRO option is specified, units in the growth state are not included.

Format 5 requests the configuration status of all CM units or all out-of-service (OOS) CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state.

2. FORMAT

```
[1]    OP:CFGSTAT,a;
```

```
[2]    OP:CFGSTAT,{MSGS=b|ONTC=d|DLI=e[&&f]-d|. . .
       . . .NLI=e[&&f]-j[&&q]-d|TMSFP=d-p|TMSLNK=d[-p]-h[&&i]}. . .
       . . .,{ALL|OOS|NOFE|NOGRO};
```

```
[3]    OP:CFGSTAT,CM,r;
```

```
[4]    OP:CFGSTAT,CM,UNAV[,NOGRO];
```

```
[5]    OP:CFGSTAT,CM[,ALL|OOS],{NOGRO|NOFE};
```

---

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`NOFE` = Report on units that are not OOS family of equipment. When specified, this option prevents the listing of circuits that are OOS family-of-equipment (FE).

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NOGRO = Report on units that are not in the growth state. When specified, this option prevents the listing of circuits in growth states.

a = CM units. Valid value(s):

CLNK=e-d-g-b
CMP=b-c
DLI=e[&&f]-d = Not valid for SM-2000.
FPC=b
MMP=b-c
MSCU=b
MSGS=b
NC=d
NCOSC=d
NCREF,PRIM=d
NCREF,REFn=d[,TYPE=o] = Network clock reference number 'n', where n = 1-8. The office is equipped with network clock 2 (NC2) or network clock 3 (NC3).
NCREF,SEC=d
NCREF,XC=d
NLI=e[&&f]-j[&&q]-d = Valid for SM-2000 only.
ONTC=d
ONTCCOM=d
OSCXC=d = Not valid for NC3.
PPC=b
QGL=b-k-c
QGP=b-k
QLPS=d-l
QTMSLNK=d-l-c
TMSFP=d-p
TMSLNK=d[-p]-h[&&i]

b = MSGS side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Switching module (SM)/SM-2000 number, or lower limit of a range of SM/SM-2000 numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Upper limit of a range of SM/SM-2000 numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = MMP unit number associated with the specified CLNK. Valid value(s):

0 = MMP that handles the even control time slot associated with the SM/SM-2000.
1 = MMP that handles the odd control time slot associated with the SM/SM-2000.

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h = Time multiplexed switch (TMS) link number, or lower limit of a range of link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Upper limit of a range of TMS link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = NLI number, or lower limit of a range of NLI numbers.

k = QGP number.

l = QLPS number.

m = Source SM/SM-2000 number. Default is report status of all units associated with all end points. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Destination SM/SM-2000 number. Default is report status of QLNKs and ISMQLNKs to all other end points from specified source end point. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Reference type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. Valid value(s):
10M = 10 MHz analog clock reference.
2M = 2.048 MHz analog clock reference.
CC = 64 KHz Composite clock Reference.
DGTL = Digital clock reference.

p = Time multiplexed switch fabric pair (TMSFP) number. For CM2 offices, when used with the TMSLNK option, this parameter is optional, and when entered, must always be TMS fabric pair 0. For CM3 offices, when used with the TMSLNK option, this parameter is required to identify a TMS link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Upper limit of a range of NLI numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = CM maintenance state. Valid value(s):
ACT = Report on units that are in an active state.
ALL = Report status of CM/child units of all states.
FRC = Report on unit that are in a forced active state. = Network link interface.
PWRALM = Report on units that are in a power alarm state.
PWROFF = Report on units that are in a power off state.
SGRO = Report on units that are in a special growth state.
STBY = Report on units that are in a standby state.
UNAV = Report on units that are in a forced unavailable state.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or

equipment status. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. An OP:CFGSTAT-CM output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:QNETSTAT
```

Output Message(s):

```
OP:CFGSTAT-CM
OP:QNETSTAT
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1200,X	SMX DLI/NLI SUMMARY
1209	ONTC 0 & 1
1210	NETWORK CLOCK
1211	NETWORK CLOCK REFERENCES
1212	TMS FABRIC PAIR STATUS (CM3 only)
1214	QLPS SUMMARY (CM3 only)
1220[,o]	TMS 0 & 1 LINK SUMMARY (where o=TMSFP for CM3)
1221[,o]	TMS 0 LINKS 2-61 (where o=TMSFP for CM3)
1222[,o]	TMS 0 LINKS 62-125 (where o=TMSFP for CM3)
1223[,o]	TMS 0 LINKS 126-189 (where o=TMSFP for CM3)
1224[,o]	TMS 0 LINKS 190-253 (where o=TMSFP for CM3)
1225[,o]	TMS 0 LINKS 254-317 (where o=TMSFP for CM3)
1226[,o]	TMS 0 LINKS 318-381 (where o=TMSFP for CM3)
1227[,o]	TMS 0 LINKS 382-445 (where o=TMSFP for CM3)
1228[,o]	TMS 0 LINKS 446-511 (where o=TMSFP for CM3)
1231[,o]	TMS 1 LINKS 2-61 (where o=TMSFP for CM3)
1232[,o]	TMS 1 LINKS 62-125 (where o=TMSFP for CM3)
1233[,o]	TMS 1 LINKS 126-189 (where o=TMSFP for CM3)
1234[,o]	TMS 1 LINKS 190-253 (where o=TMSFP for CM3)
1235[,o]	TMS 1 LINKS 254-317 (where o=TMSFP for CM3)

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1236[,o]	TMS 1 LINKS 318-381 (where o=TMSFP for CM3)
1237[,o]	TMS 1 LINKS 382-445 (where o=TMSFP for CM3)
1238[,o]	TMS 1 LINKS 446-511 (where o=TMSFP for CM3)
1240/50	MSGS 0/1 SUMMARY
1241/51	MSGS 0/1 COMMUNITIES 0-1,8-9
1242/52	MSGS 0/1 COMMUNITIES 2-7
1243/53	MSGS 0/1 COMMUNITIES 10-15
1380/1	QLPS NETWORK 0/1 STATUS
1900,X	SMX CLNKs

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OP:CFGSTAT-SM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the current configuration status (CFGSTAT) of switching module (SM) circuits. The OP:CFGSTAT-SM output message will be printed, and will list the SMs that are in the specified state.

Note: If the hardware status is required for the module controller/timeslot interchange (MCTSI), use the OP:OFFNORM input message.

2. FORMAT

```
OP:CFGSTAT,SM=a[&&b],c[,NOFE|NOPRINT];
```

3. EXPLANATION OF MESSAGE

`NOFE` = Not family of equipment. When specified with the OOS state (variable 'c'), this option prevents the listing of circuits that are OOS family of equipment (FE).

`NOPRINT` = No print. When specified with the OOS state (variable 'c'), this option prevents the printing of the OOS report headers for those SMs that have no OOS units.

`a` = SM number, or the lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

`c` = Current state:

`ACT`	= List all active circuits in the SM.
`ALINKS`	= List all out-of-service A-links in the SM.
`ALL`	= List status of all circuits in the SM.
`GROWTH`	= List all circuits in growth state in the SM(s).
`OOS`	= List all out-of-service circuits in the SM(s).
`STBY`	= List all standby circuits in the SM(s).
`SPARE`	= List all integrated services line unit (ISLU) active spare line cards and corresponding faulty line cards.

Note 1: The range option is available only for GROWTH, STBY and OOS states.
Note 2: If a large amount of records is requested, then some records may not be printed on the receive-only printer (ROP) due to the finite queuing capability.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM DOES NOT EXIST` = The message syntax is valid, but the requested SM is not in the

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system.
- SM UNEQUIPPED = The message syntax is valid, but the requested SM is unequipped.
- UNIT DOES NOT EXIST = The message syntax is valid, but the requested unit is not in the system.

PF = Printout follows. An OP:CFGSTAT-SM output message will follow in response to the request.

RL = Retry later. The request cannot be executed now. A lack of system resources has resulted in loss of communication to the requested SM.

5. REFERENCES

Input Message(s):

```
OP:DMQ
```

Output Message(s):

```
OP:CFGSTAT-SM
OP:OFFNORM-SM
```

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OP:CGA-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active carrier group alarms from integrated carrier facilities terminating on digital facility interfaces (DFIs), integrated digital carrier units (IDCUs), remote integrated services line units (RISLUs), non-integrated carrier facilities monitored by metallic service unit (MSU) scan points, and digital networking unit-synchronous optical network (SONET)(DNU-S) be printed. An optional parameter allows for an OP:CGA request for a selected SM or a range of SMs, or for a selected electrical carrier level 1 SONET termination equipment (EC1STE) interface.

2. FORMAT

```
OP:CGA[,SM=a[&&b]|EC1STE=c-d-e-f];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied.

`PF` = Printout follows. The request has been accepted. The OP:CGA output message follows containing the list.

`RL` = Retry later. The request cannot be executed now because the system is busy. Valid value(s):
- `OP ALM ALL CURRENTLY IN PROGRESS` = The OP:ALM input message with the ALL option is currently running, making resources unavailable for OP:CGA.
- `OP CGA CURRENTLY IN PROGRESS` = A previous OP:CGA input message is currently

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running, making resources unavailable for this OP:CGA input message.

5. REFERENCES

Input Message(s):

OP:ALM
OP:FAC

Output Message(s):

OP:ALM-ALL
OP:CGA
OP:FAC

Input Appendix(es):

APP:RANGES

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OP:CGA-B

Software Release: 5E16(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active carrier group alarms be printed for integrated carrier facilities terminating on digital facility interfaces (DFIs), digital networking unit-synchronous optical network (SONET)(DNU-S), integrated digital carrier units (IDCUs), optical interface unit (OIU), remote integrated services line units (RISLUs), *SLC®* 96 DFI facility interfaces (SDFIs), and non-integrated carrier facilities monitored by metallic service unit (MSU) scan points.

An optional parameter allows for an OP:CGA request for a selected SM or a range of SMs, a selected electrical carrier level 1 SONET termination equipment (EC1STE) interface, a selected optical interface unit (OIU) optical carrier rate 3 (OC3). STE.

2. FORMAT

```
OP:CGA[,SM=a[&&b]|EC1STE=c-d-e-f|OC3=c-g-h-i];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = OIU OC3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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NG = No good. The request has been denied.

PF = Printout follows. The request has been accepted. Followed by the OP:CGA output message containing the list.

RL = Retry later. The request cannot be executed now because the system is busy. May also include:
- OP ALM ALL CURRENTLY IN PROGRESS = The OP:ALM input message with the ALL option is currently running, making resources unavailable for OP:CGA.
- OP CGA CURRENTLY IN PROGRESS = A previous OP:CGA input message is currently running, making resources unavailable for this OP:CGA input message.

5. REFERENCES

Input Message(s):

OP:ALM
OP:FAC

Output Message(s):

OP:ALM-ALL
OP:CGA
OP:FAC

Input Appendix(es):

APP:RANGES

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OP:CGA-C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active carrier group alarms be printed for integrated carrier facilities terminating on digital facility interfaces (DFIs), digital networking unit-synchronous optical network (SONET)(DNU-S), integrated digital carrier units (IDCUs), optical interface unit (OIU), remote integrated services line units (RISLUs), *SLC®* 96 DFI facility interfaces (SDFIs), and non-integrated carrier facilities monitored by metallic service unit (MSU) scan points.

An optional parameter allows for an OP:CGA request for a selected SM or a range of SMs, a selected electrical carrier level 1 SONET termination equipment (EC1STE) interface, a selected optical interface unit (OIU) optical carrier rate 3 (OC3) or optical carrier rate 3 concatenated (OC3C) STE.

2. FORMAT

```
OP:CGA[,SM=a[&&b]|EC1STE=c-d-e-f|OC3=c-g-h-i]|OC3C=c-g-h-i];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = OIU OC3/OC3C STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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NG = No good. The request has been denied.

PF = Printout follows. The request has been accepted. Followed by the OP:CGA output message containing the list.

RL = Retry later. The request cannot be executed now because the system is busy. May also include:
- OP ALM ALL CURRENTLY IN PROGRESS = The OP:ALM input message with the ALL option is currently running, making resources unavailable for OP:CGA.
- OP CGA CURRENTLY IN PROGRESS = A previous OP:CGA input message is currently running, making resources unavailable for this OP:CGA input message.

5. REFERENCES

Input Message(s):

OP:ALM
OP:FAC

Output Message(s):

OP:ALM-ALL
OP:CGA
OP:FAC

Input Appendix(es):

APP:RANGES

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OP:CGAP

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that all call gapping (CGAP) code controls in the office be listed.

2. FORMAT

```
OP:CGAP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:CGAP output message.

`RL` = Retry later. May also include:
- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:CGAP
OP:M5
SET:CGAP
```

Output Message(s):

```
OP:CGAP
```

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OP:CHANMAP-A

Software Release: 5E15 - 5E16(1)
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Request output containing the busy/idle status of T1 facility channels, and how they are populated with circuit switched voice (CSV) and circuit switched data (CSD) (DS0 and/or wideband) calls. This is provided as a front-end for the utility call trace (UCT) mechanism. OP:CHANMAP can be used to determine which channel is of interest, then the UCT mechanism can be used to find information about the complete path through the network.

Conversely, the UCT mechanism can be used on a channel of a wideband call to determine originating and terminating facilities. Then OP:CHANMAP can be used on each facility to determine other channels that are used by the same wideband call. This enables the user to avoid doing a utility call trace for each channel of a wideband call.

2. FORMAT

```
[1]    OP:CHANMAP,DFAC=a-b-c-d;

[2]    OP:CHANMAP,DS1SFAC=a-e-f-h-g-i-j;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number.

`c` = Digital facility interface (DFI) number.

`d` = Facility (FAC) number.

`e` = Digital networking unit (DNU) - synchronous optical network (SONET) (DNU-S) number.

`f` = Data group number.

`g` = Synchronous transport signal (STS) number.

`h` = SONET termination equipment (STE) facility number.

`i` = Virtual tributary group (VTG) number.

`j` = Virtual tributary member (VTM) number.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `REASON FOR NG` = One or more arguments are not within legal range.

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`PF` = Printout follows. Valid value(s):
- `EVENT n` = The request has been accepted and is being processed. One or more OP:CHANMAP output messages will follow.

`RL` = Retry later.

5. REFERENCES

Output Message(s):

`OP:CHANMAP`

Other Manual(s):
235-105-220 *Corrective Maintenance Procedures*
235-190-110 *National ISDN Feature Descriptions*

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OP:CHANMAP-B

Software Release: 5E16(2) and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Request output containing the busy/idle status of T1 facility channels, and how they are populated with circuit switched voice (CSV) and circuit switched data (CSD) (DS0 and/or wideband) calls. This is provided as a front-end for the utility call trace (UCT) mechanism. OP:CHANMAP can be used to determine which channel is of interest, then the UCT mechanism can be used to find information about the complete path through the network.

Conversely, the UCT mechanism can be used on a channel of a wideband call to determine originating and terminating facilities. Then OP:CHANMAP can be used on each facility to determine other channels that are used by the same wideband call. This enables the user to avoid doing a utility call trace for each channel of a wideband call.

2. FORMAT

```
[1]    OP:CHANMAP,DFAC=a-b-c-d;
       _____________________________________________________________

[2]    OP:CHANMAP,DS1SFAC=a-e-f-h-g-i-j;
       _____________________________________________________________

[3]    OP:CHANMAP,DS1=a-k-l-m-n-i-j;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`c` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`d` = Facility (FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`e` = Digital networking unit (DNU) - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`f` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`g` = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

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`h` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`i` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`j` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`k` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`l` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`m` = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`n` = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `REASON FOR NG` = One or more arguments are not within legal range.

`PF` = Printout follows. May also include:
- `EVENT n` = The request has been accepted and is being processed. One or more OP:CHANMAP output messages will follow.

`RL` = Retry later.

5. REFERENCES

Output Message(s):

`OP:CHANMAP`

Other Manual(s):
235-105-220 *Corrective Maintenance*

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OP:CLID

Software Release: 5E15 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests that the directory numbers on the calling line identification list(CLID) be printed.

2. FORMAT

```
OP:CLID;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF`	= Printout follows. The request has been accepted. The OP:CLID-LIST output message will follow, answering the query.

5. REFERENCES

Input Message(s):

```
TRC:CLID
```

Output Message(s):

```
OP:CLID-LIST
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-190-102 *Business and Residence Non-modular Features*

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OP:CLK

Software Release: 5E15 and later
Command Group: NOCHK
Application: 5,3B
Type: Input

1. PURPOSE

Reports the current date and time.

2. FORMAT

```
OP:CLK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by OP:CLK output message.

5. REFERENCES

Input Message(s):

```
SET:CLK-5
```

Output Message(s):

```
OP:CLK
SET:CLK
```

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OP:CONFIRM

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Request to display the text, activation status and default confirmation prompt for a specified Master Control Center (MCC) page and poke combination. This message is valid only for page and poke combinations that have a default (system-defined) confirmation prompt.

2. FORMAT

```
OP:CONFIRM,PAGE=a,POKE=b;
```

3. EXPLANATION OF MESSAGE

`a` = MCC page number. Refer to the E-CONF-POKES appendix in the Appendixes section of the Input Messages manual.

`b` = Message poke number. Refer to the E-CONF-POKES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID PAGE AND POKE COMBINATION` = The page and poke combination is not valid, or is a combination that does not have a default confirmation prompt.
- `SPECIAL FEATURE NOT AVAILABLE` = Secured feature bit for the feature is not turned on.

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

`SET:CONFIRM`

Input Appendixe(s):

`APP:E-CONF-POKES`

Output Message(s):

`OP:CONFIRM`

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Other Manual(s):
235-190-115 *Local and Toll System Features*
235-105-110 *System Maintenance Requirements and Tools*

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OP:CONV-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a conversion (translation) for a particular trunk, line, data link, or operator services position system port (OSPSPORT). This message is used to obtain information about a trunk, line, data link, or OSPSPORT.

These units can be specified using either the terminal or logical identifier most suitable. The information can consist of any combination of the following:

- Equipment number.
- Directory number (DN).
- Trunk group and member number (TKGMN).
- Multi-line hunt group and member number (MLHG).
- Digital subscriber line (DSL).
- DSL group and member number (DSLGM).
- DSL-channel (CH).
- Logical port (PORT).
- Primary rate interface group (PRIGRP).
- IDCU extended operations channel (IDCUEOC).
- IDCU time-slot management channel (IDCUTMC) and the physical location.
- DNU-S extended operations channel (DNUSEOC).
- DNU-S time-slot management channel (DNUSTMC) and the physical location.
- Logical test port number (LTP).
- Scan point number (SPN).
- Optical Interface unit (OIU).

The physical location is the actual location (aisle, bay, and so forth) of the trunk, line, data link, or OSPSPORT within the building. PLTENs have 2 physical locations, one for the active side and one for the standby side. Since SLENs, INENs, and ILENs are not physically located in the office, no physical location information is available for SLENs, INENs, and ILENs.

For shared DNs (SHDN), the DN or MLHG specified must be a primary DN or MLHG, or the request is rejected.

Format 1 applies to all DSL lines, data links, and OSPSPORTs for which channel type is an option.

Format 2 applies to DNUSEOC, IDCUEOC, line equipment number (LEN), LTP, network equipment number (NEN), PRIGRP, packet switching unit equipment number (PSUEN), PLTEN, recorded announcement frame (RAF), service announcement system (SAS), SLEN, SPN, TEN, TKGMN, DNUSTMC, OIU and IDCUTMC. which do not allow channel type as an option.

2. FORMAT

```
[1]    OP:CONV,a[,CH=y[1]];

[2]    OP:CONV,b;
```

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3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Equipment number or identifier. Valid value(s):

AP=c-d	HOBICR=c-d	OAPF=a^1
AQ=c-d	HOBICV=c-d	OAPO=f
AQEST=e	HOBIS=c-d	OPT=f-g
AQM=c-d	ILEN=h-q-r-s	PKTDN=e
BST=f-g	INEN=h-h^1-r-s	PORT=h-w
DASC=c-d	LCEN=h-h^2-g^2-v	RAS=c-d
DEN=h-i-j-k	LCKEN=h-i^2-u-a^2-b^2	RTRS=c-d
DN=e[-l]	LPORT=j-w-x	XDB=c-d
DSLGM=h-m-n	MISLNK=c-d	XDPF=a^1
EIS=o-p	MLHG=y-z	XDPO=f

b = Equipment number or identifier. Valid value(s):

AIUEN=h-j^2-k^2-l^2	LTP=h-g	SAS=h-m^1-n^1
DNUSEOC=h-h^1-r-n^2	NEN=h-h^1-i^1-p^2-j^1-k^1-q^2-z^1	SLEN=h-o^1-r-s
DNUSTMC=h-h^1-r-o^2	OIUEN=h-a^3-b^3-c^3-d^3-e^3-f^3-u^2	SPN=h-p^1-q^1-r^1-s^1
IDCUEOC=h-q-r-b^1	PLTEN=h-r^2-s^2-t^2-u^2	TEN=h-t^1-q^1-u^1-v^1
IDCUTMC=h-q-r-m^2	PRIGRP=l	TKGMN=w^1-x^1
LEN=h-t-c^1-d^1-e^1-f^1	PSUEN=h-c^2-d^2-e^2-f^2	VANA=h-v^2
	RAF=h-m^1-n^1	VBRI=h-w^2
		VTRK=h-x^2-y^2
		VNAR=h-z^2

c = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Telephone number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`j` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one facility.

`l` = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified should be the main DN for the group and the member number specifies which member of the group is converted. For LTSB a member number of '1' converts the lead line, and a member number of '2' converts the associate line. If no member number is specified for 1-DN LTSB, both lines are converted. If no member number is specified for 2-DN LTSB, the line associated with the DN entered is converted.

`m` = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Logical port type. Valid value(s):

```
BFG
ISDN
OTHER
PACKET
```

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y	= Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
z	= Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
a[1]	= Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b[1]	= IDCUEOC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c[1]	= Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d[1]	= Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e[1]	= Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f[1]	= Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g[1]	= Logical test port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h[1]	= Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i[1]	= Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j[1]	= Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k[1]	= Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l[1]	= PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m[1]	= DSU2-RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n[1]	= Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o[1]	= Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p[1]	= Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input

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Messages manual.

q[1] = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[1] = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[1] = Scan point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Channel identifier; D (default), B1, or B2. If the default or the D-channel is specified, the entire DSL is identified. If a channel other than the D-channel is specified, only that channel is identified.

z[1] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[2] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[2] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[2] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[2] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[2] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[2] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[2] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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h[2] = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[2] = Integrated services line unit model 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[2] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[2] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[2] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[2] = IDCUTMC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[2] = DNUSEOC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[2] = DNUSTMC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[2] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[2] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[2] = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[2] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[2] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[2] = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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z[2] = Virtual network announcement resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[3] = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[3] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[3] = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[3] = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[3] = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[3] = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the OP:CONV output message follows.

RL = Retry later. The request has been denied, probably due to system load. The input message OP:JOBSTATUS can be used to determine if the RL was because the maximum number of request jobs are active.

5. REFERENCES

Input Message(s):

```
CNVT:RT
OP:JOBSTATUS
```

Output Message(s):

```
OP:CONV
```

Input Appendix(es):

```
APP:RANGES
```

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OP:CONV-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a conversion (translation) for a particular trunk, line, data link, or operator services position system port (OSPSPORT). This message is used to obtain information about a trunk, line, data link, or OSPSPORT.

These units can be specified using either the terminal or logical identifier most suitable. The information can consist of any combination of:

- Equipment number.
- Directory number (DN).
- Trunk group and member number (TKGMN).
- Multi-line hunt group (MLHG) and member number.
- Digital subscriber line (DSL).
- DSL group and member number (DSLGM).
- DSL-channel (CH).
- Logical port (PORT).
- Primary rate interface group (PRIGRP).
- IDCU extended operations channel (IDCUEOC).
- IDCU time-slot management channel (IDCUTMC) and the physical location.
- DNU-S extended operations channel (DNUSEOC).
- DNU-S time-slot management channel (DNUSTMC) and the physical location.
- Logical test port (LTP) number.
- Scan point number (SPN).
- Optical interface unit (OIU).

The physical location is the actual location (aisle, bay, and so forth) of the trunk, line, data link, or OSPSPORT within the building. PLTENs have 2 physical locations, one for the active side and one for the standby side. Since SLENs, INENs, and ILENs are not physically located in the office, no physical location information is available for SLENs, INENs, and ILENs.

For shared DNs (SHDN), the DN or MLHG specified must be a primary DN or MLHG, or the request is rejected.

Format 1 applies to all DSL lines, data links, and OSPSPORTs for which channel type is an option.

Format 2 applies to ATM packet pipe equipment number (ATMPP), DNUSEOC, IDCUEOC, line equipment number (LEN), LTP, network equipment number (NEN), PRIGRP, packet switching unit equipment number (PSUEN), PLTEN, recorded announcement frame (RAF), service announcement system (SAS), SLEN, SPN, TEN, TKGMN, DNUSTMC, OIUEN and IDCUTMC which do not allow channel type as an option.

2. FORMAT

```
[1]    OP:CONV,a[,CH=y[1]];

[2]    OP:CONV,b;
```

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3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Equipment number or identifier. Valid value(s):

AP=c-d
AQ=c-d
AQEST=e
AQM=c-d
BST=f-g
DASC=c-d
DEN=h-i-j-k
DN=e[-l]
DSLGM=h-c^2-m-n
EIS=o-p
HOBICR=c-d
HOBICV=c-d
HOBIS=c-d
ILEN=h-q-r-s
INEN=h-h^1-r-s
LCEN=h-h^2-g^2-v
LCKEN=h-i^2-u-a^2-b^2
LPORT=j-w-x
MISLNK=c-d
MLHG=y-z
OAPF=a^1
OAPO=f
OPT=f-g
PKTDN=e
PORT=h-w
RAS=c-d
RTRS=c-d
XDB=c-d
XDPF=a^1
XDPO=f

b = Equipment number or identifier. Valid value(s):

AIUEN=h-j^2-k^2-l^2
ATMPP=h-c^2-f^3-g^3
DNUSEOC=h-h^1-r-n^2
DNUSTMC=h-h^1-r-o^2
IDCUEOC=h-q-r-b^1
IDCUTMC=h-q-r-m^2
LEN=h-t-c^1-d^1-e^1-f^1
LTP=h-g^1
NEN=h-h^1-i^1-p^2-j^1-k^1-q^2-z^1
OIUEN=h-z^2-a^3-b^3-c^3-k^1-q^2-u^2
PLTEN=h-r^2-s^2-t^2-u^2

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```
PRIGRP=l[1]
PSUEN=h-c[2]-d[2]-e[2]-f[2]
RAF=h-m[1]-n[1]
SAS=h-m[1]-n[1]
SLEN=h-o[1]-r-s
SPN=h-p[1]-q[1]-r[1]-s[1]
TEN=h-t[1]-q[1]-u[1]-v[1]
TKGMN=w[1]-x[1]
VANA=h-v[2]
VBRI=h-w[2]
VTRK=h-x[2]-y[2]
```

c = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Telephone number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one facility.

l = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified should be the main DN for the group and the member number specifies which member of the group is converted. For LTSB a member number of '1' converts the lead line, and a member number of '2' converts the associate line. If no member number is specified for 1-DN LTSB, both lines are converted. If no member number is specified for 2-DN LTSB, the line associated with the DN entered is converted.

m = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = PSU channel group member number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

o = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Logical port type. Valid value(s):

```
BFG
ISDN
OTHER
PACKET
```

y = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = IDCUEOC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the

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Input Messages manual.

`e`[1] = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Logical test port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = DSU2-RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = Scan point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input

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Messages manual.

`w`[1] = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Channel identifier; D (default), B1, or B2. If the default or the D-channel is specified, the entire DSL is identified. If a channel other than the D-channel is specified, only that channel is identified.

`z`[1] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[2] = Integrated services line unit model 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[2] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[2] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[2] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[2] = IDCUTMC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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n[2] = DNUSEOC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[2] = DNUSTMC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[2] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[2] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[2] = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[2] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[2] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[2] = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[2] = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[3] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[3] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[3] = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[3] = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[3] = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and the OP:CONV output message follows.

`RL` = Retry later. The request has been denied, probably due to system load. The input message OP:JOBSTATUS can be used to determine if the RL was because the maximum number of request jobs are active.

5. REFERENCES

Input Message(s):

```
CNVT:RT
OP:JOBSTATUS
```

Output Message(s):

```
OP:CONV
```

Input Appendix(es):

```
APP:RANGES
```

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OP:CONV-EXT-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.

The translation from external identifier to internal circuit name supports only the switching module (SM) circuits. Dual link interface (DLI)/network link interfaces (NLIs) are considered part of the communication module (CM), and are not supported. Remote link interfaces (RLIs) are supported because they are SM circuits.

For external to internal translation, the output is the circuit's internal circuit name in hexadecimal format.

2. FORMAT

```
OP:CONV,EXT,a;
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

a = Valid value(s):

AIU=b-b[4]	IDCUELI=b-x-d[1]	PMU=b-r-v[1]
AIUCOMDAC=b-c[3]-d[3]	IDCUEOC=b-x-y-z	PROTO=b-j-k
AIULP=b-c[3]-e[3]	IDCUPIDB=b-x-e[1]	PSIUCOM=b-w[1]-k
AIULC=b-c[3]-e[3]-z[2]	IDCUTMC=b-x-y-w	PSUPIDB=b-w[1]-x[1]-e[1]
AIURG=b-c[3]-f[3]	IFAC=b-x-f[1]	PSUPH=b-w[1]-x[1]-y[1]
AIUTSGRP=b-c[3]-d[3]-g[3]	ISLUCC=b-g[1]-i[1]	RAF=b-z[1]
ALINK=b-c-d-e-f	ISLUCD=b-g[1]-j[1]	RAU=b
ALIT=b-j-k-l	ISLUHLSC=b-g[1]-k-h[1]	RCL=b-n-o-b[1]
ASC=b	ISLULBD=b-g[1]-x[2]-y[2]	RCLK=b-a[2]
BTSR=b	ISLULC=b-g[1]-k[1]-l[1]	RCOSC=b-b[2]
CDFI=b-n-o	ISLULCKT=b-g[1]-x[2]-y[2]-z[2]	RCOXC=b-c[2]
CDI=b-p-k	ISLULGC=b-g[1]-k[1]	RCREF=b-d[2]
DCLU=b-q-k	ISLULGC=b-g[1]-x[2]	RCXC=b-e[2]
DCTUCOM=b-r	ISLUMAN=b-g[1]-k-n[1]	RDFI=b-n-o
DCTUPORT=b-r-s	ISLUPIDB=b-g[1]-m[1]	RLI=b-f[2]
DFI=b-n-o	ISLURG=b-g[1]-k	RRCLK=b-g[1]-f[1]
DFIH=b-u-v	ISTF=b-o[1]	RTFAC=h[3]-i[3]
DFTAC=b-j-k-s	IWGLI=b-v[3]-o[2]-w[3]	RVPT=b-c[1]-k-g[2]
DIST=b-j-k-v[2]	IWGFAC=b-v[3]-x[3]	SAS=b-m[2]
DNUSCC=b-n[2]-i[1]		

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DNUSCD=b-n^2-o^2-p^2	LDSF=b-l^2	SCAN=b-j-k-w^2
DNUSEOC=b-n^2-y-z	LDSU=b-c^1-k	SDFI=b-q-h^2
DNUSTMC=b-n^2-y-w	LDSUCOM=b-c^1-k	SFI=b-n^2-o^2-q^2
DS1SFAC=b-n^2-o^2-s^2-t^2-k^3-l^2	LEN=b-c-d-e-g-i	SLIM=b-j-k-b^3
EAN=b-r	LUCHAN=b-c-k-p^1-q^1	EC1STE=b-n^2-o^2-s^2
EOC=h^3-z	LUCHBD=b-c-k-p^1	STSFAC=b-n^2-o^2-s^2-t^2
FAC=b-n-a^1-b^1	LUCOMC=b-c-k	TAC=b-p-k
GDSF=b-a^3	LUHLSC=b-c-k-h^1	TEN=b-p-k-m-t
GDSUCOM=b-i^2-k	MA=b-j-k-r^1	TMC=h^3-w
GDXACC=b-c-k	MAB=b-j-k-s^1	TMUX=b-n^2-o^2-r^2
GDXC=b-j-k-l	MCTSI=b-t^1	TTFCOM=a-i^2-k-j^2
GDXCON=b-c-k	MSUCOM=b-j-k	TUCHBD=b-p-k-m
GRID=b-c-d	MTB=b-j-k-r^1-j^3	UCONF=b-i^2-k-k^2
GRIDBD=b-c-d-e	MTIB=u^1	UMBIL=b-m3-n3
HDFI=b-n-o	MTIBAX=b-j-k-p^1	UTD=b-c^1-k-h
IDCU=b-x-k	PCTDX=b-o^3-p^3	UTG=b-c^1-k-k^2
	PLTLK=b-r^3-s^3-t^3	VNCR=b-q^3
	TRIB=b-r^3-s^3-u^3	VT1FAC=b-n^2-o^2-s^2-t^2-k^3-l^2

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = UTD number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Service group (SG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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l = MSU board slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Trunk equipment number (TEN) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Trunk unit (TU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = DCTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Remote integrated service line unit (RISLU) DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Integrated digital circuit unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = Remote switching module (RSM) DFIH number, inter-RSM CDFI number, or inter-office trunk DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = FAC number. The FAC number is the T1 facility number on a remote DFI (RDFI), CDFI, or DFI (0-1).

c[1] = Local digital service unit (LDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d`[1] = Electrical line interface (ELI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = PIDB or direct DPIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Integrated facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = High-level service circuit (HLSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = PIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = MAB board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = MCTSI unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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v[1] = PMU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[1] = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[2] = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[2] = RCOSC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[2] = RCOXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[2] = RCREF to be stored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[2] = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[2] = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[2] = RVPT circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[2] = *SLC®* 96 digital facility interface (SDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[2] = Global digital service unit (GDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[2] = TTFCOM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[2] = Digital service unit (DSU) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[2] = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[2] = SAS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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n[2] = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[2] = Data Group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[2] = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[2] = SFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[2] = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[2] = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[2] = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[2] = VT1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[2] = Distribute board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[2] = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[2] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[2] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[2] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[3] = GDSF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[3] = Subscriber line instrument measuring (SLIM) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[3] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[3] = Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[3] = Line pack (LP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`f`[3] = Ring generator (RG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[3] = Timeslot group (TSGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[3] = Site identification (SID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[3] = Remote Terminal (RT) Facility (FAC) circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[3] = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[3] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[3] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[3] = RSM Number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[3] = Host umbilical(UMBIL) Number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[3] = peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[3] = peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[3] = Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[3] = Peripheral Line and Trunk Unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[3] = Peripheral Control Facility Interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[3] = Peripheral Control Facility Interface (PCTFI) Link Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[3] = Peripheral Control Facility Interface Link Tributary (TRIB) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[3] = Inter-Working Gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[3] = Inter-Working Gateway Link Interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`x`[3] = Inter-Working Gateway Facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the OP:CONV-EXT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`OP:CONV-EXT`

Input Appendix(es):

`APP:RANGES`

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OP:CONV-EXT-B

Software Release: 5E16(1) - 5E20(1)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.

The translation from external identifier to internal circuit name supports only the switching module (SM) circuits. Dual link interface (DLI)/network link interfaces (NLIs) are considered part of the communication module (CM), and are not supported. Remote link interfaces (RLIs) are supported because they are SM circuits.

For external to internal translation, the output is the circuit's internal circuit name in hexadecimal format.

2. FORMAT

`OP:CONV,EXT,a~[,NETINTF=a4];`

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

`a` = Valid value(s):

`AIU=b-b4`
`AIUCOMDAC=b-c3-d3`
`AIULP=b-c3-e3`
`AIULC=b-c3-e3-z2`
`AIURG=b-c3-f3`
`AIUTSGRP=b-c3-d3-g3`
`ALINK=b-c-d-e-f`
`ALIT=b-j-k-l`
`ASC=b`
`BTSR=b`
`CDFI=b-n-o`
`CDI=b-p-k`
`DCLU=b-q-k`
`DCTUCOM=b-r`
`DCTUPORT=b-r-s`
`DFI=b-n-o`
`DFIH=b-u-v`
`DFTAC=b-j-k-s`
`DIST=b-j-k-v2`
`DNUSCC=b-n2-i1`
`DNUSCD=b-n2-o2-p2`
`DNUSEOC=b-n2-y-z`

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DNUSTMC=b-n^{2}-y-w
DS1=b-c^{4}-d^{4}-f^{4}-g^{4}-k^{3}-l^{3}
DS1SFAC=b-n^{2}-o^{2}-s^{2}-t^{2}-k^{3}-l^{3}
EAN=b-r
EOC=h^{3}-z
FAC=b-n-a^{1}-b^{1}
GDSF=b-a^{3}
GDSUCOM=b-i^{2}-k
GDXACC=b-c-k
GDXC=b-j-k-l
GDXCON=b-c-k
GRID=b-c-d
GRIDBD=b-c-d-e
HDFI=b-n-o
IDCU=b-x-k
IDCUELI=b-x-d^{1}
IDCUEOC=b-x-y-z
IDCUPIDB=b-x-e^{1}
IDCUTMC=b-x-y-w
IFAC=b-x-f^{1}
ISLUCC=b-g^{1}-i^{1}
ISLUCD=b-g^{1}-j^{1}
ISLUHLSC=b-g^{1}-k-h^{1}
ISLULBD=b-g^{1}-x^{2}-y^{2}
ISLULC=b-g^{1}-k^{1}-l^{1}
ISLULCKT=b-g^{1}-x^{2}-y^{2}-z^{2}
ISLULGC=b-g^{1}-k^{1}
ISLULGC=b-g^{1}-x^{2}
ISLUMAN=b-g^{1}-k-n^{1}
ISLUPIDB=b-g^{1}-m^{1}
ISLURG=b-g^{1}-k
ISTF=b-o^{1}
IWGLI=b-v^{3}-o^{2}-w^{3}
IWGFAC=b-v^{3}-x^{3}
IWUFAC=b-y^{3}-z^{3}
LDSF=b-l^{2}
LDSU=b-c^{1}-k
LDSUCOM=b-c^{1}-k
LEN=b-c-d-e-g-i
LUCHAN=b-c-k-p^{1}-q^{1}
LUCHBD=b-c-k-p^{1}
LUCOMC=b-c-k
LUHLSC=b-c-k-h^{1}
MA=b-j-k-r^{1}
MAB=b-j-k-s^{1}
MCTSI=b-t^{1}
MSUCOM=b-j-k
MTB=b-j-k-r^{1}-j^{3}
MTIB=u^{1}

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MTIBAX=b-j-k-p[1]
OC3=b-c[4]-d[4]-f[4]-e[4]
OC3C=b-c[4]-d[4]-h[4]-e[4]
OFI=b-c[4]-d[4]-e[4]
PAG=b-b[4]
PCTDX=b-o[3]-p[3]
PLTLK=b-r[3]-s[3]-t[3]
PPPLK=b-c[4]-d[4]-h[4]-i[4]
PMU=b-r-v[1]
PROTO=b-j-k
PSIUCOM=b-w[1]-k
PSUPIDB=b-w[1]-x[1]-e[1]
PSUPH=b-w[1]-x[1]-y[1]
RAF=b-z[1]
RAU=b
RCL=b-n-o-b[1]
RCLK=b-a[2]
RCOSC=b-b[2]
RCOXC=b-c[2]
RCREF=b-d[2]
RCXC=b-e[2]
RDFI=b-n-o
RLI=b-f[2]
RRCLK=b-g[1]-f[1]
RTFAC=h[3]-i[3]
RVPT=b-c[1]-k-g[2]
SAS=b-m[2]
SCAN=b-j-k-w[2]
SDFI=b-q-h[2]
SFI=b-n[2]-o[2]-q[2]
SLIM=b-j-k-b[3]
EC1STE=b-n[2]-o[2]-s[2]
STS1=b-c[4]-d[4]-f[4]-g[4]
STSFAC=b-n[2]-o[2]-s[2]-t[2]
STS3C=b-c[4]-d[4]-h[4]-i[4]
TAC=b-p-k
TEN=b-p-k-m-t
TMC=h[3]-w
TMUX=b-n[2]-o[2]-r[2]
TRIB=b-r[3]-s[3]-u[3]
TTFCOM=a-i[2]-k-j[2]
TUCHBD=b-p-k-m
UCONF=b-i[2]-k-k[2]
UMBIL=b-m[3]-n[3]
UTD=b-c[1]-k-h
UTG=b-c[1]-k-k[2]
VNCR=b-q[3]
VT15=b-c[4]-d[4]-f[4]-g[4]-k[3]-l[3]

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VT1FAC=b-n^2-o^2-s^2-t^2-k^3-l^2

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = UTD number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Service group (SG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = MSU board slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Trunk equipment number (TEN) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Trunk unit (TU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = DCTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`s` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Remote integrated service line unit (RISLU) DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Integrated digital circuit unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Remote switching module (RSM) DFIH number, inter-RSM CDFI number, or inter-office trunk DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = FAC number. The FAC number is the T1 facility number on a remote DFI (RDFI), CDFI, or DFI (0-1).

`c`[1] = Local digital service unit (LDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Electrical line interface (ELI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = PIDB or direct DPIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Integrated facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = High-level service circuit (HLSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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k[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = PIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[1] = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[1] = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[1] = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[1] = MAB board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = MCTSI unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = PMU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[1] = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[2] = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[2] = RCOSC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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c[2] = RCOXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[2] = RCREF to be stored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[2] = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[2] = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[2] = RVPT circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[2] = *SLC®* 96 digital facility interface (SDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[2] = Global digital service unit (GDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[2] = TTFCOM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[2] = Digital service unit (DSU) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[2] = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[2] = SAS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[2] = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[2] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[2] = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[2] = SFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[2] = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[2] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[2] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`u`[2] = VT1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[2] = Distribute board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[2] = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[2] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[2] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[2] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[3] = GDSF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[3] = Subscriber line instrument measuring (SLIM) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[3] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[3] = Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[3] = Line pack (LP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[3] = Ring generator (RG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[3] = Timeslot group (TSGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[3] = Site identification (SID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[3] = Remote terminal (RT) facility (FAC) circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[3] = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[3] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[3] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`m`[3] = RSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[3] = Host umbilical (UMBIL) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[3] = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[3] = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[3] = Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[3] = Peripheral line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[3] = Peripheral control facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[3] = Peripheral control facility interface (PCTFI) link side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[3] = Peripheral control facility interface link tributary (TRIB) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[3] = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[3] = Inter-working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[3] = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[3] = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[3] = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[4] = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[4] = Packet access gateway (PAG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[4] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[4] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`e`[4] = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[4] = Optical carrier - level 3 (OC-3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[4] = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[4] = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[4] = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the OP:CONV-EXT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`OP:CONV-EXT`

Input Appendix(es):

`APP:RANGES`

OP:CONV-EXT-C

Software Release: 5E21(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.

The translation from external identifier to internal circuit name supports only the switching module (SM) circuits. Dual link interface (DLI)/network link interfaces (NLIs) are considered part of the communication module (CM), and are not supported. Remote link interfaces (RLIs) are supported because they are SM circuits.

For external to internal translation, the output is the circuit's internal circuit name in hexadecimal format.

2. FORMAT

```
OP:CONV,EXT,a [,NETINTF=a4];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

a = Unit. Valid value(s):

```
AIU=b-b4
AIUCOMDAC=b-c3-d3
AIULP=b-c3-e3
AIULC=b-c3-e3-z2
AIURG=b-c3-f3
AIUTSGRP=b-c3-d3-g3
ALINK=b-c-d-e-f
ALIT=b-j-k-l
ASC=b
BTSR=b
CDFI=b-n-o
CDI=b-p-k
DCLU=b-q-k
DCTUCOM=b-r
DCTUPORT=b-r-s
DFI=b-n-o
DFIH=b-u-v
DFTAC=b-j-k-s
DIST=b-j-k-v2
DNUSCC=b-n2-i1
DNUSCD=b-n2-o2-p2
DNUSEOC=b-n2-y-z
```

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DNUSTMC=b-n^{2}-y-w
DS1=b-c^{4}-d^{4}-f^{4}-g^{4}-k^{3}-l^{3}
DS1SFAC=b-n^{2}-o^{2}-s^{2}-t^{2}-k^{3}-l^{3}
EAN=b-r
EOC=h^{3}-z
FAC=b-n-a^{1}-b^{1}
GDSF=b-a^{3}
GDSUCOM=b-i^{2}-k
GDXACC=b-c-k
GDXC=b-j-k-l
GDXCON=b-c-k
GRID=b-c-d
GRIDBD=b-c-d-e
HDFI=b-n-o
IDCU=b-x-k
IDCUELI=b-x-d^{1}
IDCUEOC=b-x-y-z
IDCUPIDB=b-x-e^{1}
IDCUTMC=b-x-y-w
IFAC=b-x-f^{1}
ISLUCC=b-g^{1}-i^{1}
ISLUCD=b-g^{1}-j^{1}
ISLUHLSC=b-g^{1}-k-h^{1}
ISLULBD=b-g^{1}-x^{2}-y^{2}
ISLULC=b-g^{1}-k^{1}-l^{1}
ISLULCKT=b-g^{1}-x^{2}-y^{2}-z^{2}
ISLULGC=b-g^{1}-k^{1}
ISLULGC=b-g^{1}-x^{2}
ISLUMAN=b-g^{1}-k-n^{1}
ISLUPIDB=b-g^{1}-m^{1}
ISLURG=b-g^{1}-k
ISTF=b-o^{1}
IWGLI=b-v^{3}-o^{2}-w^{3}
IWGFAC=b-v^{3}-x^{3}
IWUFAC=b-y^{3}-z^{3}
LDSF=b-l^{2}
LDSU=b-c^{1}-k
LDSUCOM=b-c^{1}-k
LEN=b-c-d-e-g-i
LUCHAN=b-c-k-p^{1}-q^{1}
LUCHBD=b-c-k-p^{1}
LUCOMC=b-c-k
LUHLSC=b-c-k-h^{1}
MA=b-j-k-r^{1}
MAB=b-j-k-s^{1}
MCTSI=b-t^{1}
MSUCOM=b-j-k
MTB=b-j-k-r^{1}-j^{3}
MTIB=u^{1}

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MTIBAX=b-j-k-p[1]
OC3=b-c[4]-d[4]-f[4]-e[4]
OC3C=b-c[4]-d[4]-h[4]-e[4]
OFI=b-c[4]-d[4]-e[4]
PAG=b-b[4]
PCTDX=b-o[3]-p[3]
PHPCTLNK=b-w[1]-x[1]-y[1]-k[4]
PIDBCOM=b-w[1]-k-e[1]
PLI=b-j[4]-s-e[4]
PLTLK=b-r[3]-s[3]-t[3]
PPPLK=b-c[4]-d[4]-h[4]-i[4]
PMU=b-r-v[1]
PROTO=b-j-k
PSIUCOM=b-w[1]-k
PSUPIDB=b-w[1]-x[1]-e[1]
PSUPH=b-w[1]-x[1]-y[1]
RAF=b-z[1]
RAU=b
RCL=b-n-o-b[1]
RCLK=b-a[2]
RCOSC=b-b[2]
RCOXC=b-c[2]
RCREF=b-d[2]
RCXC=b-e[2]
RDFI=b-n-o
RLI=b-f[2]
RRCLK=b-g[1]-f[1]
RTFAC=h[3]-i[3]
RVPT=b-c[1]-k-g[2]
SAS=b-m[2]
SCAN=b-j-k-w[2]
SDFI=b-q-h[2]
SFI=b-n[2]-o[2]-q[2]
SLIM=b-j-k-b[3]
EC1STE=b-n[2]-o[2]-s[2]
STS1=b-c[4]-d[4]-f[4]-g[4]
STSFAC=b-n[2]-o[2]-s[2]-t[2]
STS3C=b-c[4]-d[4]-h[4]-i[4]
TAC=b-p-k
TEN=b-p-k-m-t
TMC=h[3]-w
TMUX=b-n[2]-o[2]-r[2]
TRIB=b-r[3]-s[3]-u[3]
TTFCOM=a-i[2]-k-j[2]
TUCHBD=b-p-k-m
UCONF=b-i[2]-k-k[2]
UMBIL=b-m[3]-n[3]
UTD=b-c[1]-k-h

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```
UTG=b-c[1]-k-k[2]
VNCR=b-q[3]
VT15=b-c[4]-d[4]-f[4]-g[4]-k[3]-l[3]
VT1FAC=b-n[2]-o[2]-s[2]-t[2]-k[3]-l[2]
```

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = UTD number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Service group (SG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = MSU board slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Trunk equipment number (TEN) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Trunk unit (TU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`r` = DCTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Remote integrated service line unit (RISLU) DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Integrated digital circuit unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Remote switching module (RSM) DFIH number, inter-RSM CDFI number, or inter-office trunk DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = FAC number. The FAC number is the T1 facility number on a remote DFI (RDFI), CDFI, or DFI (0-1).

`c`[1] = Local digital service unit (LDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Electrical line interface (ELI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = PIDB or direct DPIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Integrated facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = High-level service circuit (HLSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`j`[1] = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = PIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = MAB board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = MCTSI unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = PMU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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b[2] = RCOSC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[2] = RCOXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[2] = RCREF to be stored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[2] = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[2] = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[2] = RVPT circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[2] = *SLC®* 96 digital facility interface (SDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[2] = Global digital service unit (GDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[2] = TTFCOM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[2] = Digital service unit (DSU) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[2] = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[2] = SAS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[2] = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[2] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[2] = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[2] = SFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[2] = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[2] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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t[2] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[2] = VT1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[2] = Distribute board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[2] = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[2] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[2] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[2] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[3] = GDSF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[3] = Subscriber line instrument measuring (SLIM) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[3] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[3] = Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[3] = Line pack (LP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[3] = Ring generator (RG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[3] = Timeslot group (TSGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[3] = Site identification (SID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[3] = Remote terminal (RT) facility (FAC) circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[3] = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[3] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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l[3] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[3] = RSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[3] = Host umbilical (UMBIL) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[3] = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[3] = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[3] = Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[3] = Peripheral line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[3] = Peripheral control facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[3] = Peripheral control facility interface (PCTFI) link side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[3] = Peripheral control facility interface link tributary (TRIB) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[3] = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[3] = Inter-working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[3] = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[3] = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[3] = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[4] = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[4] = Packet access gateway (PAG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[4] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d`[4] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[4] = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[4] = Optical carrier - level 3 (OC-3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[4] = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[4] = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[4] = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[4] = Time slot interchange slice (TSIS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[4] = Peripheral control and timing (PCT) link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the OP:CONV-EXT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`OP:CONV-EXT`

Input Appendix(es):

`APP:RANGES`

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OP:CONV-INT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that translation information for a particular circuit, from its internal identifier to its external identifier.

For internal to external translation, the output will be the circuit's external identifier; if applicable, additional information such as subtending unit will follow.

2. FORMAT

```
OP:CONV,INT,{CKT|ALINK|LEN}=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Internal identifier of line unit A-link (ALINK), line equipment number (LEN) or any SM circuit.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the OP:CONV-INT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`OP:CONV-INT`

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OP:CONV-PHA-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Convert from a given protocol handler (PH) for asynchronous transfer mode (ATM) (PHA) to the associated packet switch unit (PSU) link and channel that it services.

2. FORMAT

```
OP:CONV,PHA=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Followed by an OP:CONV-PHA output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`OP:CONV-PHA`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1187 (PSU LINK STATUS)

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OP:CONV-PHA-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Convert from a given protocol handler (PH) for asynchronous transfer mode (ATM) (PHA) to the associated packet switch unit (PSU) link and channel that it services.

2. FORMAT

```
OP:CONV,PHA=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

`PF` = Followed by an OP:CONV-PHA output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
OP:CONV-PHA
```

Input Appendix(es):

```
APP:RANGES
APP:SYS-RESPONSE
```

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MCC Display Page(s):
1187,y PSU LINK STATUS (where y=PSU number)

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OP:CONV-PHGRP

Software Release: 5E19(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

To report protocol handler (PH) group (PHGRP) conversion data.

2. FORMAT

```
OP:CONV,PHGRP=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PH group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

`PF` = Printout follows. Followed by the OP:CONV-PHGRP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
OP:CONV-PHGRP
```

Input Appendix(es):

```
APP:RANGES
APP:SYS-RESPONSE
```

MCC Display Page(s):
1188,b,y,a PH GROUP STATUS (where b=PSU number, y=Screen number, and a=SM number)

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OP:CONV-PSALNK

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Convert from a given packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) to the associated protocol handlers (PHs) for ATM (PHAs) that service the individual channels of the ATM link.

2. FORMAT

```
OP:CONV,PSALNK=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` =ATM link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

`PF` = Printout follows. Followed by the OP:CONV-PSALNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:CONV-PHA
```

Output Message(s):

```
OP:CONV-PSALNK
```

Input Appendix(es):

```
APP:RANGES
APP:SYS-RESPONSE
```

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MCC Display Page(s):
1187,y,x PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)

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OP:CONV-PSELNK

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Format 1 converts from a given ethernet link (PSELNK) to the associated protocol handlers for ethernet (PHE) and the channel group associated to it.

Format 2 converts from a given PHE to the associated link and channel group.

Format 3 converts from a given channel group to the associated ethernet link and PHE.

2. FORMAT

```
[1]    OP:CONV,PSELNK=a-b-c;
       ____________________________________________________________

[2]    OP:CONV,PSELNK,PHE=a-b-d-e;
       ____________________________________________________________

[3]    OP:CONV,PSELNK,CHGRP=a-b-d-f;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Ethernet link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Protocol handler (PH) number (relative to the PSU Shelf).

`f` = Channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by an OP:CONV-PSELNK output message.

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RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:CONV-PSELNK
```

Output Message(s):

```
OP:CONV-CHGRP
OP:CONV-PHE
OP:CONV-PSELNK
```

OP:CONV-PSLNK-A

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

NOTE: For gateway protocol handlers (PH) the only valid input message format is #4. Other formats will not yield the expected results.

2. FORMAT

```
[1]    OP:CONV,PSLNK=a-b;

[2]    OP:CONV,PSLNK,PSUCA=a,FARCA=b;

[3]    OP:CONV,PSLNK,PSU=c-0,FARCA=b;

[4]    OP:CONV,PSLNK,PSUCA=a;
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link.

`b` = Far PSU community address of the PSU link.

Note: The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint configuration network.

`c` = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by an OP:CONV-PSLNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
OP:CONV-PHA
```

Output Message(s):

```
OP:CONV-PSLNK
```

MCC Display Page(s):

PSU LINKS STATUS

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OP:CONV-PSLNK-B

Software Release: 5E16(1) only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

NOTE: For gateway protocol handlers (PH) the only valid input message format is #4. Other formats will not yield the expected results.

2. FORMAT

```
[1]    OP:CONV,PSLNK=a-b;

[2]    OP:CONV,PSLNK,PSUCA=a,FARCA=b;

[3]    OP:CONV,PSLNK,PSU=c-d,FARCA=b;

[4]    OP:CONV,PSLNK,PSUCA=a;
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link.

`b` = Far PSU community address of the PSU link.

Note: The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint configuration network.

`c` = Switching module (SM) number.

`d` = PSU number

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by an OP:CONV-PSLNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
OP:CONV-PHA
```

Output Message(s):

```
OP:CONV-PSLNK
```

MCC Display Page(s):

PSU LINKS STATUS

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OP:CONV-PSLNK-C

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

For gateway PHs, only Format 4 is valid. Other formats will not yield the expected results.

2. FORMAT

```
[1]    OP:CONV,PSLNK=a-b;
       _____________________________________________________________

[2]    OP:CONV,PSLNK,PSUCA=a,FARCA=b;
       _____________________________________________________________

[3]    OP:CONV,PSLNK,PSU=c-d,FARCA=b;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Far PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint configuration network.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

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PF = Printout follows. Followed by an OP:CONV-PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:CONV-PHA

Output Message(s):

OP:CONV-PSLNK

Input Appendix(es):

APP:RANGES
APP:SYS-RESPONSE

MCC Display Page(s):
1187,y PSU LINKS STATUS (where y=PSU number)

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OP:CORCSTAT-SM

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests the reporting of the number of customer-originated recent changes (CORCs) that are logged in one or more switching modules (SMs) and/or one or more communication module processors (CMPs).

2. FORMAT

```
OP:CORCSTAT,{SM=a[&&b]|CMP=c[&&d]|SM=a[&&b],CMP=c[&&d]};
```

3. EXPLANATION OF MESSAGE

`a` = The SM number or lower limit of a range of SM numbers.

`b` = The upper limit of a range of SM numbers.

`c` = The CMP number or lower limit of a range of CMP numbers.

`d` = The upper limit of a range of CMP numbers.

4. SYSTEM RESPONSE

`NG` = No good. The input message was not valid.

`PF` = Printout follows. The OP:CORCSTAT-SM output message follows.

5. REFERENCES

None.

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OP:COT-STATUS

Software Release: 5E15 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests output of the mode, priority, and number of messages buffered for the customer-originated trace (COT) feature.

2. FORMAT

```
OP:COT,STATUS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows, followed by the OP:COT-STATUS output message.

5. REFERENCES

Input Message(s):

```
SET:COT
```

Output Message(s):

```
OP:COT-STATUS
```

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OP:CPE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that information describing the configuration of the specified digital subscriber line (DSL) be displayed. The output will contain the type of DSL (singlepoint versus multipoint), the status of the DSLs D and B-channels, and whether default service is available on the DSL. It will also identify what customer premises equipment (CPE) integrated services digital network (ISDN) terminals are connected to the DSL, give the terminal endpoint identifier (TEI) of each CPE, identify the type of CPE (when known), identify the protocol that each CPE supports (when known), identify the users service profile identifier (USPID) associated with the CPE (when known), and identify the primary directory number (DN)/multi-line hunt group (MLHG) associated with the CPE (when known).

This output is useful in identifying the current configuration of the DSL and in providing the current CPE's TEI identification (which can change over time depending on the actions taken by the network and subscribers on the DSL). The TEI information may be needed during manually-requested removals (RMV:CPE) and restorations (RST:CPE) of terminals connected to the DSL.

The information provided by this message is similar in content to the information displayed on the trunk and line work station (TLWS) DSL graphic display page.

2. FORMAT

```
OP:CPE,a;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Equipment number or identifier. Valid value(s):

```
AIUEN=d-n-o-p
DN=q
ILEN=d-h-i-j
INEN=d-r-i-j
LCEN=d-e-f-g
LCKEN=d-e-k-l-m
MLHG=b-c
PKTDN=q
```

b = MLHG number of a subscriber associated with the DSL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Multi-line hunt member number of the subscriber. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) in which the digital subscriber line (DSL) exists. Refer to the

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APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Integrated services line unit (ISLU) or ISLU version 2 (ISLU2) in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line group controller (LGC) in the ISLU in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Line card of the ISLU line group controller which the DSL connects to. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Access interface unit (AIU) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Circuit directory number (DN) or packet directory number (PKTDN) of any subscriber associated with the DSL. For key-system service DNs, only primary DNs are valid.

r = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input request was in some way invalid, most likely because a value was out of range. Identify the error with the original request and repeat the request.

PF = Printout follows. The requested action has been accepted and is being processed. An OP:CPE output message will be printed that identifies the outcome of the request, providing the DSL and CPE information when successful.

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5. REFERENCES

Input Message(s):

```
RMV:CPE
RMV:LINE
RST:CPE
RST:LINE
```

Output Message(s):

```
OP:CPE
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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42. OP:D

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OP:DATALINK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current usage of an Operator Position System (OSPS) External Information System (EIS) data link or data link group. Output will include switching module state, switching module identification, EIS identification, link number, approximate usage as a percentage of link capacity, recent overload count, and the data link state associated with a single data link or a data link group. A data link group is defined as a set of two or more data links, up to a maximum of sixteen, connecting a vendor's EIS to a switching module (SM).

Note: If a data link is in service and the approximate usage is displayed as zero, then link capacity as calculated is less than one percent.

2. FORMAT

```
[1]    OP:DATALINK,{EIS=b-c|LCEN=d-e-f-g|SM=d}[,DCH];

[2]    OP:DATALINK,EIS=b,SM=d[,DCH];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`DCH` = D-channel identifier.

`b` = EIS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = External data link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SM number.

`e` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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`PF` = Printout follows. The request has been accepted and is followed by the OP:DATALINK output message.

`RL` = Retry later. The request has been denied probably due to system load.

5. REFERENCES

Output Message(s):

`OP:DATALINK`

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OP:DCC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Lists all destination code cancellation (DCC) controls in the office. Specific information is included for each control:

- Destination code.
- Gapping interval.
- Announcement treatment if blocking occurs.
- Type of traffic subject to the control.

This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT

```
OP:DCC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:DCC output message.

`RL` = Retry later. May also include:
- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:DCC
OP:DSNM5
SET:DCC
```

Output Message(s):

```
OP:DCC
```

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Other Manual(s):
235-900-133 *Product Specification*

MCC Display Page(s):

109 (DSN NM EXCEPTION)
129 (OVERLOAD)

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OP:DCOFC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all offices that have trunk groups terminating at this switch. This message is valid only for the defense switched network (DSN).

2. FORMAT

```
OP:DCOFC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:DCOFC output message.

`RL` = Retry later. May also include:
- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:ARC
SET:ARC
```

Output Message(s):

```
OP:DCOFC
```

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

109 (DSN NM EXCEPTION)
129 (OVERLOAD)

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OP:DEBUG

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that status of metallic debugging flags be printed for the specified SM.

Format 1 is for SM only cases.

2. FORMAT

```
OP:DEBUG,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or acceptable.

`PF` = Printout follows. Followed by the OP:DEBUG output message.

5. REFERENCES

Input Message(s):

```
ALW:DEBUG
CHG:LPS-MSGCLS
INH:DEBUG
```

Output Message(s):

```
ALW:DEBUG
INH:DEBUG
OP:DEBUG
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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OP:DFC-INFO-A

Software Release: 5E15 - 5E17(1)
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information regarding the specified disk file controller (DFC) and equipped sub-devices.

NOTE: The format and content of the output will vary depending on the DFC and the equipped sub-device types.

Information includes:
- DFC major status.
- DFC microcode (firmware/pumpcode) version.
- Small computer system interface (SCSI) bus (SBUS) member number, device ID, and major status.
- Sub-device information:
  - Unit name and member number.
  - Device type.
  - Device ID.
  - Physical port.
  - Major status.
  - Number of tracks.
  - Validity of the volume table of contents (VTOC).
  - Usability.
  - Unit reserved.
  - Unit essential.
  - Unit's mate.
  - Equipage sizes and compatibility.
  - Product identification.
  - Device firmware revision level.
  - Serial number.

2. FORMAT

```
OP:DFC=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = DFC member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the OP:DFC-INFO output message.

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5. REFERENCES

Input Message(s):

```
OP:MHD-INFO
OP:MT-INFO
```

Output Message(s):

```
OP:DFC-INFO
```

Input Appendix(es):

```
APP:RANGES
```

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OP:DFC-INFO-B

Software Release: 5E18(1) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information regarding the specified disk file controller (DFC) and equipped sub-devices.

NOTE: The format and content of the output will vary depending on the DFC and the equipped sub-device types.

Information includes:
- DFC unit name, number, and major status.
- DFC microcode (firmware/pumpcode) version.
- Small computer system interface (SCSI) bus (SBUS) unit number, device ID, and major status.
- Sub-device information:
  - Unit name and number.
  - Device type.
  - Device ID.
  - Major status.
  - Unit reserved.
  - Product identification number.
  - Device firmware revision level.
  - For disk devices:
    - Validity of the volume table of contents (VTOC).
    - Usability.
    - Unit essential.
    - Unit's mate.
    - Physical disk size.
    - Disk size based on the UCB equipage value.
    - VTOC size based on the UCB mv value.
    - VTOC size based on the last used block in the VTOC.
    - Disk/UCB/VTOC compatibility.
    - Serial number.

2. FORMAT

```
OP:DFC=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = DFC member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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PF = Printout follows. The request has been accepted. Followed by the OP:DFC-INFO output message.

5. REFERENCES

Input Message(s):

OP:MHD-INFO
OP:MT-INFO

Output Message(s):

OP:DFC-INFO

Input Appendix(es):

APP:RANGES

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OP:DFCELOG

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that enhanced information report (EIR) entries of the disk driver logfile be printed and formatted. Refer to the REPT:DFCE and REPT:DFCI output messages for EIR report. If no options are specified, all EIR entries of type 2 are formatted and printed. Otherwise, the EIR entries in the logfile that meet all the selection criteria are printed.

The DATE, TIME, ID, and TYPE options are matched with information contained in the user control string (UCS) which the spooler adds as a prefix to each message before storing it in the logfile. The UCS is not part of the OP:DFCELOG output. If the DATE option is specified in a long format (ten digits), the TIME option is illegal. If the DATE option is specified in a short format (six digits), and the TIME option is given, an intersection between the DATE and TIME options is taken. If the TYPE option is not specified, the OP:DFCELOG message searches for type 2222 in the UCS string. The keyword (KW) option matches on information contained in the text of the EIR message. The unit number in the moving head disk (MHD) option is mapped into the MHD ID plug ID switch number contained in the text of the EIR message. The CCODE option is matched with the completion code contained in the text of the EIR message.

2. FORMAT

```
OP:DFCELOG;DATA[,MHD=a[,CCODE=b]][,DATE=c[&&d]][,TIME=e[&&f]][,KW="g"]
[,ID=h][,TYPE=i][,LIMIT=j][,CLASS=k|,DEVICE="l"];
```

3. EXPLANATION OF MESSAGE

`a` = MHD number.

`b` = Completion code (in hex); for example, h'00ff.

`c` = Start date in month, day, and year format (mmddyy); for example, 090188 equals September 1, 1988; or in month, day, year, hour, and minute format (mmddyyhhmm); for example, 0901881030 equals September 1, 1988, at 10:30 a.m. The size of the small computer system interface (SCSI) EIR completion code is two hex digits. Therefore, only the two least significant digits are meaningful.

`d` = End date (mmddyy) or (mmddyyhhmm); for example, 090188 equals September 1, 1988 or 0901881030 equals September 1, 1988, at 10:30 a.m. Default is the start date. If given, this parameter must be in the same format (six or ten digits) as the start date.

`e` = Start time in hours and minutes (hhmm); for example, 0110 equals 1:10 a.m. Default date is current date.

`f` = End time in hours and minutes (hhmm); for example, 1530 equals 3:30 p.m. Default is start time. Default date is the current date.

`g` = A keyword that appears in all EIR entries that are to be reported (up to 39 characters).

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`h` = An optional 4-digit decimal numeral which is used to link an item in a logfile with an entry in another file. The ID is filled in by the process which made the logfile entry; for example, 1234.

`i` = An optional 4-digit decimal numeral which specifies the type of entry on a logfile. The type is filled in by the process which made the logfile entry; for example, 1234. Default is 2222.

`j` = Specifies the maximum number of output entries. Default is 200. Will report output complete if limit is reached.

`k` = Location on which output should be routed. Valid value(s):

`R` = Receive-only printer (ROP).

`T` = Terminal and ROP.

Default is R.

`l` = A specific device that output should be routed to (up to nine characters). This device cannot be a logfile.

4. SYSTEM RESPONSE

`IP` = In progress.

5. REFERENCES

Output Message(s):

```
OP:DFCELOG
REPT:DFCE
REPT:DFCI
```

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OP:DIGTRC

Software Release: 5E15 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests consolidated routing information based on requested digit analysis selector (DAS). The routing information consists of destination index and route index. A list of translated digit patterns along with the routing information will be placed into a *UNIX*® RTR operating system file on the administrative module (AM) under the /updtmp directory. The routing information is written to a file called "xxxxxx.results", the "xxxxxx" being a unique number for every execution of the message. The resulting file will be limited to 1000 line entries. Any failures encountered while processing will be indicated on the receive-only printer (ROP) and an error file, "xxxxxx.err", also under "/updtmp".

2. FORMAT

```
OP:DIGTRC,SM=a,DAS=b,START=c,END=d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digit analysis selector (DAS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Starting range of digit strings (0 - 999999999).

`d` = Ending range of digit strings (0 - 999999999).

4. SYSTEM RESPONSE

`PF` = Printout follows. The information will be in an output file.

`NG` = No good. The request was not accepted because:
- An illegal SM number was specified.
- An illegal DAS number was specified.
- An illegal START number was specified.
- An illegal END number was specified.

5. REFERENCES

Input Message(s):

```
OP:RTITRC
DUMP:F-ALL
```

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Output Message(s):

```
REPT:OP-DIGTRC
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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OP:DMQ-CM-SM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the status of all active and waiting requests in the deferred maintenance queues (DMQ). Either the communication module (CM) DMQ or the DMQ for one or more switching modules (SM) can be requested.

2. FORMAT

```
OP:DMQ,{CM|SM=a[&&b][,all]};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number (or lower limit for a range of SMs) where the desired DMQ resides.

`b` = Upper limit for a range of SM numbers.

`ALL` = All available data. This type request can produce large output reports and therefore it's use should be kept to a minimum.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request could not be processed.

`PF` = Printout follows. Followed by OP:DMQ-CM or the OP:DMQ-SM output message.

`RL` = Retry later. May also include:
- `SM ISOLATED` = The request could not be processed because the SM is currently isolated.

5. REFERENCES

Output Message(s):

`OP:DMQ-CM`
`OP:DMQ-SM`

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OP:DMQ

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of the queue from the administrative module (AM) maintenance input request administrator. This queue contains the status of all requests currently executed by the diagnostic control structure, including restore/remove requests, and the automatic maintenance request sources presently inhibited.

2. FORMAT

```
OP:DMQ[,AM];
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:DMQ output message.

5. REFERENCES

Input Message(s):

```
STOP:DMQ
STP:DMQ
```

Output Message(s):

```
OP:DMQ
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

111 (AM, AM PERIPHERALS)

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OP:DOC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that all dynamic overload controls (DOCs) specified for the office be listed, or lists the control for a single trunk group.

2. FORMAT

```
OP:DOC[,TG=a];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the OP:DOC output message.

`RL` = Retry later. May also include:
- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ALW:DSILC
ASGN:DOC
CLR:DOC
INH:DSILC
```

Output Message(s):

```
OP:DOC
```

Other Manual(s):

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235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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OP:DSNM5

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of a package (PKG) from the five-minute (M5) surveillance data set of packages. This message is valid only for defense switched network (DSN) switches.

2. FORMAT

```
OP:DSNM5,PKG=a[,TG=b];
```

3. EXPLANATION OF MESSAGE

a = Package name. Valid value(s):
- ARC = Alternate route cancellation control.
- CLCT = Network management control counts.
- CLDIR = Call direction.
- DCC = Destination code cancellation control.
- DLYR = Delayed readiness.
- IMA = Additional ineffective machine attempts.
- OVRLD = Overload or congestion control.
- RRC = Manual reroute trunk group controls.
- SVC = Critical service circuits.
- TGFLAG = Trunk group flags.
- TGMEAS = Basic trunk group measurements.

b = Trunk group number. This trunk group number must be on the network management (NM) schedule. If it is not, use the ASGN:DPSCH input message to put the trunk group on the NM schedule. This parameter is only specified with the TGMEAS package. The default is all trunk groups on the NM schedule.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
- PACKAGE UNASSIGNED = The request has been denied. The data for the package requested is not currently being collected. Use the SET:DSNM5 input message to add the package to the package list.

PF = Printout follows.

RL = Retry later. Valid value(s):
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary

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resources.

- `TG UNASSIGNED` = The request has been denied. The trunk group requested is not on the NM schedule so it is not included in the measurement collection. Use the ASGN:DPSCH input message to add the trunk group to the NM schedule, wait for the next five-minute collection period, and re-enter the request.

5. REFERENCES

Input Message(s):

```
ASGN:DPSCH
OP:M5PKG
SET:DSNM5
```

Output Message(s):

```
OP:DSNM5-ARC
OP:DSNM5-CLCT
OP:DSNM5-CLDIR
OP:DSNM5-DCC
OP:DSNM5-TGMEAS
OP:M5PKG-CLCT
OP:M5PKG-DLYR
OP:M5PKG-IMA
OP:M5PKG-OVRLD
OP:M5PKG-RRC
OP:M5PKG-SVC
OP:M5PKG-TGFLAG
```

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

109 (OVERLOAD)
129 (DSN NM EXCEPTION)

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43. OP:E

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OP:ECDAUD

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the status of a previous execution or a currently running on-switch ECD audit be output.

2. FORMAT

```
OP:ECDAUD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ECDAUD output message.

5. REFERENCES

Input Message(s):

```
STOP:ECDAUD
INH:ECDAUD
ALW:ECDAUD
SCHED:ECDAUD
EXC:ECDAUD
```

Output Message(s):

```
OP:ECDAUD
```

Other Manual(s):
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance Manual*

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OP:EMERSTAT

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Requests the status of the emergency dump partition on the disk: full or empty. If it is full, information is provided about the data that was written into the partition.

2. FORMAT

```
OP:EMERSTAT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:EMERSTAT output message.

5. REFERENCES

Input Message(s):

```
CLR:EMERDMP
COPY:TAPE-EMERDMP
```

Output Message(s):

```
OP:EMERSTAT
REPT:EMER-DUMP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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OP:EQSTAT-A

Software Release: 5E15 - 5E16(1)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.

The units that equipage information can be requested on are the module message processor (MMP), the MMP growth board (MMPGBRD), the MMP synchronous data link controller (MMPSDLC), the time multiplexed switch (TMS) link (TMSLNK), the quad-link packet switch (QLPS), the quad-link packet switch gateway processor (QGP), the RSM communications links (CLNKs) through its host SM (HSM), the SM, or the communications module processor (CMP).

The MMPGBRD only exists in CM model 1 (CM1) hardware. This message does not provide status on any SM peripheral units, or on any units within the SM.

The RSMCL input parameter is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

```
OP:EQSTAT,{MMP=a-b|MMPGBRD=a-b|MMPSDLC=a-b-c|TMSLNK=d-e. . .
. . .|QGP=a-g|QLPS=d-h|RSMCL,HSM=f|SM=f|CMP=a-i|GROWTH};
```

3. EXPLANATION OF MESSAGE

`GROWTH` = Print all CM units and SMs in the GROW or SGRO equipage states.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Synchronous data link controller (SDLC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Office network and timing complex (ONTC) side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TMS link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = QLPS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input

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Messages manual.

`i` = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Output Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the OP:EQSTAT-CM or OP:EQSTAT-RSMCL output message.

5. REFERENCES

Output Message(s):

```
OP:EQSTAT-CM
OP:EQSTAT-RSMCL
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-231 *Hardware Change Procedures*

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OP:EQSTAT-B

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.

The units that equipage information can be requested on are the module message processor (MMP), the MMP growth board (MMPGBRD), the MMP synchronous data link controller (MMPSDLC), the time multiplexed switch (TMS) link (TMSLNK), the quad-link packet switch (QLPS), the quad-link packet switch gateway processor (QGP), the RSM communications links (CLNKs) through its host SM (HSM), the SM, or the communications module processor (CMP).

The MMPGBRD only exists in CM model 1 (CM1) hardware. This message does not provide status on any SM peripheral units, or on any units within the SM.

The RSMCL input parameter is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

```
OP:EQSTAT,{MMP=a-b|MMPGBRD=a-b|MMPSDLC=a-b-c|TMSLNK=d[-j]-e[&&k]. . .
 . . .|QGP=a-g|QLPS=d-h|RSMCL,HSM=f|SM=f|CMP=a-i|GROWTH};
```

3. EXPLANATION OF MESSAGE

`GROWTH` = Print all CM units and SMs in the GROW or SGRO equipage states.

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Synchronous data link controller (SDLC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Office network and timing complex (ONTC) side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TMS link number, or lower limit of a range of TMS link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = QLPS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input

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Messages manual.

`i` = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Time multiplexed switch fabric pair (TMSFP) number. For CM2 offices, this parameter is optional, and when entered, must always be TMS fabric pair 0. For CM3 offices, this parameter is required to identify a TMS link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Upper limit of a range of TMS link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Output Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the OP:EQSTAT-CM or OP:EQSTAT-RSMCL output message.

5. REFERENCES

Output Message(s):

```
OP:EQSTAT-CM
OP:EQSTAT-RSMCL
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-231 *Hardware Change Procedures*

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OP:ERRCHK

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all inhibited administrative module error conditions, including ERRINT, ERRSRC, HDWCHK, and SFTCHK.

2. FORMAT

```
OP:ERRCHK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ERRCHK output message.

5. REFERENCES

Input Message(s):

```
ALW:ERRCHK
INH:ERRCHK
```

Output Message(s):

```
ALW:ERRCHK
INH:ERRCHK
OP:ERRCHK
```

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OP:ESA

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the enhanced 911 service adjuncts (ESAs).

2. FORMAT

```
OP:ESA:STATUS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT AN ESA OFFICE` = The request has been denied because the ESAs for the office have not been equipped (E911 OPTION field on RC/V View 8.1 is not ESA).
- `FAILED TO SEND MESSAGE` = The request has been denied because the message cannot be sent to the communication module processor (CMP) to process the requested information.
- `FEATURE NOT AVAILABLE` = The request has been denied because the dual ESA for E911 (SFID 108) and/or the dual ESA enhancements special feature (SFID 141) have not been purchased.

`PF` = Printout follows. Followed by the OP:ESA output message.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The message can not be sent. The communications module processor (CMP) is not available.
- `OTHER REQUEST IN PROGRESS` = Another ESA request is currently in progress.

5. REFERENCES

Input Message(s):

```
CLR:ESA
SET:ESA
```

Output Message(s):

```
CLR:ESA
OP:ESA
```

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```
REPT:ESA
SET:ESA
```

Other Manual(s):
235-900-303 *ISDN Application Processor Interface Specification*

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
24.7 (DSL APPLICATION PROCESSOR COMMUNICATION DATA)

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44. OP:F

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OP:FAC-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.

Format 1 is used to request an output report of performance monitoring counts for a specific DFI facility. This format is used to support early model DFIs such as ANN1, ANN3(B), and so forth. (Such a DFI is sometimes known as a DFI-1.)

Format 2 is used to request the current user input message requested ACS on a specified DFAC facility. The OP:FAC output message indicates the DFAC's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFAC's.)

Format 3 is used to request the current user input message requested ACS on a specified DFI-2 facility. The OP:FAC output message indicates the DFI-2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFI-2's.)

Format 4 is used to request the current user input message requested ACS on a specified DLTU2 facility. The OP:FAC output message indicates the DLTU2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DLTU2's.)

Format 5 is used to request an output report of performance monitoring counts for DFI-2 facilities (DFACs).

Format 6 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given DFI-2.

Format 7 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given digital line and trunk unit model 2 (DLTU2).

Format 8 is used to request an output report of performance monitoring counts for an IDCU facility (IFAC).

Format 9 is used to request an output report of performance monitoring counts for all in-service facilities on an IDCU.

Caution: Requesting counts for all facilities on the IDCU will generate four or more pages of ROP output if the IDCU is fully equipped.

Use the conditional option to report only those facilities that have generated an interval alert during the current 15-minute interval or daily alert during the current performance monitoring day.

Format 10 is used to request an output report of performance monitoring counts for all facilities on an IDCU-supported or a DNU-S supported TR303 remote terminal (RT).

Format 11 is used to request the current user input message requested alert control status (ACS) on the specified switching module (SM). (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the SM's current input message requested ACS. Recent changeable alert inhibits for

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the entire switch (RC/V View 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]) or individual facilities (RC/V View 20.23 [IDCU FACILITY EQUIPMENT (IFAC)], 20.25 [DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)], or 22.15 [PERFORMANCE MONITORING - THRESHOLD GROUP]) override the input message requested 'allows'. Also, input message requested inhibit for the SM overrides any input message requested allows on the DFAC, DFI-2, DLTU2, IDCU, TR303 RTs, IFACs, or DNU-S.

Format 12 is used to request the last user requested ACS on the specified IDCU. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the IDCU's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the IDCU, subsequent requests to inhibit/allow reports for TR303 RTs or individual IFACs may have changed the input message alert control status for some of the IDCU's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 13 is used to request the last user input message requested ACS on the specified TR303 RT. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the RT's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the RT, subsequent requests to inhibit/allow reports for the transport unit (such as, IDCU, DNU-S) or individual facilities may have changed the input message alert control status for some or all of the RT's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 14 is used to request the current user input message requested ACS on the specified IFAC. (The REPT:FAC output message describes the alert report). The OP:FAC output message indicates the IFACs current input message requested ACS. The status reported for an IFAC represents a summary of all IDCU, TR303 RT and IFAC input message inhibit/allow requests. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 15 is used to request the current user input message requested ACS on the specified DNU-S. The OP:FAC output message indicates the DNU-S's current input message requested ACS.

Format 16 is used to request the current user input message requested ACS on a specified DNU-S SONET termination equipment (STE) facility number. The OP:FAC output message indicates the STE's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STE's.)

Format 17 is used to request the current user input message requested ACS on a specified DNU-S virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 18 is used to request the current user input message requested ACS on a specified DNU-S digital signal level-1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 19 is used to request an output report of performance monitoring counts for all in-service STE facilities on a DNU-S.

Format 20 is used to request an output report of performance monitoring counts for a specified DNU-S STE facility.

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Format 21 is used to request an output report of performance monitoring counts for all in-service VT1.5 facilities on a synchronous transport signal (STS-1) facility (with VT1 request) or all in-service DS1 facilities on an STS-1 facility (with DS1 request).

Caution: Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of ROP output if all 28 facilities are in-service.

Format 22 is used to request an output report of performance monitoring counts for a specified DNU-S VT1.5 facility.

Format 23 is used to request an output report of performance monitoring counts for a specified DNU-S DS1 facility.

2. FORMAT

```
[1]    OP:FAC,DFAC=a-b-c-0;

[2]    OP:FAC,DFAC=a-b-c-d,ACS;

[3]    OP:FAC,DFI=a-b-c,ACS;

[4]    OP:FAC,DLTU=a-b,ACS;

[5]    OP:FAC,DFAC=a-b-c-d[,CURR][,PREV][,HIST];

[6]    OP:FAC,DFI=a-b-c[,CURR][,PREV];

[7]    OP:FAC,DLTU=a-b[,CURR][,PREV];

[8]    OP:FAC,IDCU=a-e[,CURR][,PREV][,COND][,{NE|BOTH}];

[9]    OP:FAC,IFAC=a-e-f[,CURR][,PREV][,HIST]][,{NE|FE|BOTH}];

[10]   OP:FAC,{DNUSRT=a-h-g|IDCURT=a-e-g}[,CURR][,PREV][,{FE|BOTH|}];

[11]   OP:FAC,SM=a[,ACS];

[12]   OP:FAC,IDCU=a-e[,ACS];

[13]   OP:FAC,{DNUSRT=a-h-g|IDCURT=a-e-g}[,ACS];

[14]   OP:FAC,IFAC=a-e-f[,ACS];

[15]   OP:FAC,DNUS=a-h,ACS;

[16]   OP:FAC,EC1STE=a-h-i-j,ACS;

[17]   OP:FAC,VT1FAC=a-h-i-j-k-l-m,ACS;

[18]   OP:FAC,DS1SFAC=a-h-i-j-k-l-m,ACS;

[19]   OP:FAC,DNUS=a-h[,CURR][,PREV][,COND];

[20]   OP:FAC,EC1STE=a-h-i-j[,CURR][,PREV][,HIST];
```

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```
[21]   OP:FAC,STSFAC=a-h-i-j-k,VT1|DS1[,CURR][,PREV][,COND]. . .
       . . .[,{NE|FE|BOTH}];

[22]   OP:FAC,VT1FAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST]. . .
       . . .[,{NE|FE|BOTH}];

[23]   OP:FAC,DS1SFAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST]. . .
       . . .[,{NE|FE|BOTH}];
```

3. EXPLANATION OF MESSAGE

ACS = Report the requested unit's last requested or current alert report inhibit/allow status requested using the input message. Recent changeable alert inhibits may be in effect that override input message requested allows.

BOTH = Report counts from both ends of a facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.

COND = Conditional request. Report only those facilities that have reported a 15-minute threshold crossing during the current interval or a daily threshold crossing during the current day. Refer to the REPT:FAC output message.

CURR = Report all current 15-minute and day counts (default).

FE = Far end. Report counts from the far end of a facility only.

HIST = Report all 32 15-minute interval history counts.

Requesting HIST counts will generate 3 or more pages of ROP output to report all 32 history intervals.

NE = Near end. Report counts from the switch end of the facility only.

PREV = Report all previous 15-minute and day counts. The previous 15-minute count is the same count as the first of the 32 history interval counts.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI-2 facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Integrated digital carrier unit (IDCU) facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`g` = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The input contained an illegal specification.

`PF` = Printout follows. The request has been accepted and the OP:FAC output message follows.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
INIT:REG
OP:REG
```

Output Message(s):

```
INIT:FAC
INIT:REG
OP:FAC
OP:REG
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):

235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
20.23	IDCU FACILITY EQUIPMENT (IFAC)
20.25	DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)
22.15	PERFORMANCE MONITORING - THRESHOLD GROUP

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OP:FAC-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.

Format 1 is used to request an output report of performance monitoring counts for a specific DFI facility. This format is used to support early model DFIs such as ANN1, ANN3(B), and so forth. (Such a DFI is sometimes known as a DFI-1.)

Format 2 is used to request the current user input message requested ACS on a specified DFAC facility. The OP:FAC output message indicates the DFAC's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFAC's.)

Format 3 is used to request the current user input message requested ACS on a specified DFI-2 facility. The OP:FAC output message indicates the DFI-2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFI-2's.)

Format 4 is used to request the current user input message requested ACS on a specified DLTU2 facility. The OP:FAC output message indicates the DLTU2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DLTU2's.)

Format 5 is used to request an output report of performance monitoring counts for DFI-2 facilities (DFACs).

Format 6 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given DFI-2.

Format 7 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given digital line and trunk unit model 2 (DLTU2).

Format 8 is used to request an output report of performance monitoring counts for an IDCU facility (IFAC).

Format 9 is used to request an output report of performance monitoring counts for all in-service facilities on an IDCU.

Caution: Requesting counts for all facilities on the IDCU will generate four or more pages of ROP output if the IDCU is fully equipped.

Use the conditional option to report only those facilities that have generated an interval alert during the current 15-minute interval or daily alert during the current performance monitoring day.

Format 10 is used to request an output report of performance monitoring counts for all facilities on an IDCU-supported or a DNU-S supported TR303 remote terminal (RT).

Format 11 is used to request the current user input message requested alert control status (ACS) on the specified switching module (SM). (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the SM's current input message requested ACS. Recent changeable alert inhibits for

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the entire switch (RC/V View 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]) or individual facilities (RC/V View 20.23 [IDCU FACILITY EQUIPMENT (IFAC)], 20.25 [DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)], or 22.15 [PERFORMANCE MONITORING - THRESHOLD GROUP]) override the input message requested 'allows'. Also, input message requested inhibit for the SM overrides any input message requested allows on the DFAC, DFI-2, DLTU2, IDCU, TR303 RTs, IFACs, DNU-S, or OIU.

Format 12 is used to request the last user requested ACS on the specified IDCU. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the IDCU's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the IDCU, subsequent requests to inhibit/allow reports for TR303 RTs or individual IFACs may have changed the input message alert control status for some of the IDCU's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 13 is used to request the last user input message requested ACS on the specified TR303 RT. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the RT's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the RT, subsequent requests to inhibit/allow reports for the transport unit (such as, IDCU, DNU-S) or individual facilities may have changed the input message alert control status for some or all of the RT's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 14 is used to request the current user input message requested ACS on the specified IFAC. (The REPT:FAC output message describes the alert report). The OP:FAC output message indicates the IFACs current input message requested ACS. The status reported for an IFAC represents a summary of all IDCU, TR303 RT and IFAC input message inhibit/allow requests. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 15 is used to request the current user input message requested ACS on the specified DNU-S. The OP:FAC output message indicates the DNU-S's current input message requested ACS.

Format 16 is used to request the current user input message requested ACS on a specified DNU-S SONET termination equipment (STE) facility number. The OP:FAC output message indicates the STE's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STE's.)

Format 17 is used to request the current user input message requested ACS on a specified DNU-S virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 18 is used to request the current user input message requested ACS on a specified DNU-S digital signal level-1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 19 is used to request an output report of performance monitoring counts for all in-service STE facilities on a DNU-S.

Format 20 is used to request an output report of performance monitoring counts for a specified DNU-S STE facility.

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Format 21 is used to request an output report of performance monitoring counts for all in-service VT1.5 facilities on a synchronous transport signal (STS-1) facility (with ALLVT1 request) or all in-service DS1 facilities on an STS-1 facility (with ALLDS1 request).

Caution: Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of ROP output if all 28 facilities are in-service.

Format 22 is used to request an output report of performance monitoring counts for a specified DNU-S VT1.5 facility.

Format 23 is used to request an output report of performance monitoring counts for a specified DNU-S DS1 facility.

Format 24 is used to request the current user input message requested ACS on the specified OIU. The OP:FAC output message indicates the OIU's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OIU's.)

Format 25 is used to request the current user input message requested ACS on a specified OIU optical carrier level 3 (OC3) facility number. The OP:FAC output message indicates the OC3's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OC3's.)

Format 26 is used to request the current user input message requested ACS on a specified OIU synchronous transport signal level 1 (STS1) facility. The OP:FAC output message indicates the STS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STS1's.)

Format 27 is used to request the current user input message requested ACS on a specified OIU virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 28 is used to request the current user input message requested ACS on a specified OIU digital signal level 1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 29 is used to request an output report of performance monitoring counts for the selected side, in-service OC3 facilities for each protection group on an OIU.

Format 30 is used to request an output report of performance monitoring counts for a specified OC3 facility on an OIU.

Format 31 is used to request an output report of performance monitoring counts for a specified STS1 facility on an OIU.

Format 32 is used to request an output report of performance monitoring counts for a specified VT1.5 facility on an OIU.

Format 33 is used to request an output report of performance monitoring counts for a specified DS1 facility on an OIU.

Format 34 is used to request an output report of performance monitoring counts for all in-service VT1.5

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facilities on a synchronous transport signal (STS-1) facility (with ALLVT1 request) or all in-service DS1 facilities on an STS-1 facility (with ALLDS1 request).

Caution: Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of ROP output if all 28 facilities are in-service.

2. FORMAT

```
[1]   OP:FAC,DFAC=a-b-c-0;

[2]   OP:FAC,DFAC=a-b-c-d,ACS;

[3]   OP:FAC,DFI=a-b-c,ACS;

[4]   OP:FAC,DLTU=a-b,ACS;

[5]   OP:FAC,DFAC=a-b-c-d[,CURR][,PREV][,HIST];

[6]   OP:FAC,DFI=a-b-c[,CURR][,PREV];

[7]   OP:FAC,DLTU=a-b[,CURR][,PREV];

[8]   OP:FAC,IDCU=a-e[,CURR][,PREV][,COND][,{NE|BOTH}];

[9]   OP:FAC,IFAC=a-e-f[,CURR][,PREV][,HIST]][,{NE|FE|BOTH}];

[10]  OP:FAC,{DNUSRT=a-h-g|IDCURT=a-e-g}[,CURR][,PREV][,{FE|BOTH|}];

[11]  OP:FAC,SM=a[,ACS];

[12]  OP:FAC,IDCU=a-e[,ACS];

[13]  OP:FAC,{DNUSRT=a-h-g|IDCURT=a-e-g}[,ACS];

[14]  OP:FAC,IFAC=a-e-f[,ACS];

[15]  OP:FAC,DNUS=a-h,ACS;

[16]  OP:FAC,EC1STE=a-h-i-j,ACS;

[17]  OP:FAC,VT1FAC=a-h-i-j-k-l-m,ACS;

[18]  OP:FAC,DS1SFAC=a-h-i-j-k-l-m,ACS;

[19]  OP:FAC,DNUS=a-h[,CURR][,PREV][,COND];

[20]  OP:FAC,EC1STE=a-h-i-j[,CURR][,PREV][,HIST];

[21]  OP:FAC,STSFAC=a-h-i-j-k,ALLVT1|ALLDS1[,CURR][,PREV][,COND]. . .
      . . .[,{NE|FE|BOTH}];

[22]  OP:FAC,VT1FAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST]. . .
      . . .[,{NE|FE|BOTH}];

[23]  OP:FAC,DS1SFAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST]. . .
```

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```
      . . .[,{NE|FE|BOTH}];

[24]  OP:FAC,OIU=a-n,ACS;

[25]  OP:FAC,OC3=a-n-o-p-q,ACS;

[26]  OP:FAC,STS1=a-n-o-p-r,ACS;

[27]  OP:FAC,VT15=a-n-o-p-r-l-m,ACS;

[28]  OP:FAC,DS1=a-n-o-p-r-l-m,ACS;

[29]  OP:FAC,OIU=a-n[,CURR][,PREV][,{NE|FE|BOTH}][,COND];

[30]  OP:FAC,OC3=a-n-o-p-q[,CURR][,PREV][,HIST][,{NE|FE|BOTH}];

[31]  OP:FAC,STS1=a-n-o-p-r[,CURR][,PREV][,HIST][,{NE|FE|BOTH}];

[32]  OP:FAC,VT15=a-n-o-p-r-l-m[,CURR][,PREV][,HIST]. . .
      . . .[,{NE|FE|BOTH}];

[33]  OP:FAC,DS1=a-n-o-p-r-l-m[,CURR][,PREV][,HIST]. . .
      . . .[,{NE|FE|BOTH}];

[34]  OP:FAC,STS1=a-n-o-p-r,ALLVT1|ALLDS1[,CURR][,PREV][,COND]. . .
      . . .[,{NE|FE|BOTH}];
```

3. EXPLANATION OF MESSAGE

ACS = Report the requested unit's last requested or current alert report inhibit/allow status requested using the input message. Recent changeable alert inhibits may be in effect that override input message requested allows.

BOTH = Report counts from both ends of a facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.

COND = Conditional request. Report only those facilities that have reported a 15-minute threshold crossing during the current interval or a daily threshold crossing during the current day. Refer to the REPT:FAC output message.

CURR = Report all current 15-minute and day counts (default).

FE = Far end. Report counts from the far end of a facility only.

HIST = Report all 32 15-minute interval history counts. For OIU facilities, report all 31 15-minute history counts (the previous 15-minute count is not included in the history interval counts for OIU facilities).

Requesting HIST counts will generate 3 or more pages of ROP output to report all of the history intervals.

NE = Near end. Report counts from the switch end of the facility only.

PREV = Report all previous 15-minute and day counts. The previous 15-minute count is the same count as the first of the 32 history interval counts for non-OIU facilities. For OIU facilities, the

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previous 15-minute count is not included with the history interval counts.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI-2 facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Integrated digital carrier unit (IDCU) facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input

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Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and the OP:FAC output message follows.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
INIT:REG
OP:REG
```

Output Message(s):

```
INIT:FAC
INIT:REG
OP:FAC
OP:REG
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
10.23	IDCU FACILITY EQUIPMENT (IFAC)
20.25	DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)
22.15	PERFORMANCE MONITORING

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OP:FAC-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number. Also requests output of the PM measurement data for packet protocol layers associated with a session initiation protocol (SIP) protocol handler (PH).

The command is also used to request output of the vacant DS1 trunking facilities terminated on a digital line and trunk unit (DLTU), peripheral control and timing (PCT) line and trunk unit (PLTU), DNU-S, or OIU.

Format 1 is used to request an output report of performance monitoring counts for a specific DFI facility. This format is used to support early model DFIs such as ANN1, ANN3(B), and so forth. (Such a DFI is sometimes known as a DFI-1.)

Format 2 is used to request the current user input message requested ACS on a specified DFAC facility. The OP:FAC output message indicates the DFAC's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFAC's.)

Format 3 is used to request the current user input message requested ACS on a specified DFI-2 facility. The OP:FAC output message indicates the DFI-2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFI-2's.)

Format 4 is used to request the current user input message requested ACS on a specified DLTU2 facility. The OP:FAC output message indicates the DLTU2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DLTU2's.)

Format 5 is used to request an output report of performance monitoring counts for DFI-2 facilities (DFACs).

Format 6 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given DFI-2.

Format 7 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given digital line and trunk unit model 2 (DLTU2).

Format 8 is used to request an output report of performance monitoring counts for an IDCU facility (IFAC).

Format 9 is used to request an output report of performance monitoring counts for all in-service facilities on an IDCU.

CAUTION: Requesting counts for all facilities on the IDCU will generate four or more pages of ROP output if the IDCU is fully equipped.

Use the conditional option to report only those facilities that have generated an interval alert during the current 15-minute interval or daily alert during the current performance monitoring day.

Format 10 is used to request an output report of performance monitoring counts for all facilities on an

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IDCU-supported or a DNU-S supported TR303 remote terminal (RT).

Format 11 is used to request the current user input message requested alert control status (ACS) on the specified switching module (SM). (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the SM's current input message requested ACS. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V View 20.23, 20.25, 20.32 or 22.15) override the input message requested 'allows'. Also, input message requested inhibit for the SM overrides any input message requested allows on the DFAC, DFI-2, DLTU2, IDCU, TR303 RTs, IFACs, DNU-S, OIU or SIP-T PHs.

Format 12 is used to request the last user requested ACS on the specified IDCU. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the IDCU's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the IDCU, subsequent requests to inhibit/allow reports for TR303 RTs or individual IFACs may have changed the input message alert control status for some of the IDCU's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.15 and 20.23) override any input message requested 'allows'.

Format 13 is used to request the last user input message requested ACS on the specified TR303 RT. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the RT's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the RT, subsequent requests to inhibit/allow reports for the transport unit (such as, IDCU, DNU-S) or individual facilities may have changed the input message alert control status for some or all of the RT's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.15 and 20.23) override any input message requested 'allows'.

Format 14 is used to request the current user input message requested ACS on the specified IFAC. (The REPT:FAC output message describes the alert report). The OP:FAC output message indicates the IFACs current input message requested ACS. The status reported for an IFAC represents a summary of all IDCU, TR303 RT and IFAC input message inhibit/allow requests. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.15 and 20.23) override any input message requested 'allows'.

Format 15 is used to request the current user input message requested ACS on the specified DNU-S. The OP:FAC output message indicates the DNU-S's current input message requested ACS.

Format 16 is used to request the current user input message requested ACS on a specified DNU-S SONET termination equipment (STE) facility number. The OP:FAC output message indicates the STE's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STE's.)

Format 17 is used to request the current user input message requested ACS on a specified DNU-S virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 18 is used to request the current user input message requested ACS on a specified DNU-S digital signal level-1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 19 is used to request an output report of performance monitoring counts for all in-service STE facilities on a DNU-S.

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Format 20 is used to request an output report of performance monitoring counts for a specified DNU-S STE facility.

Format 21 is used to request an output report of performance monitoring counts for all in-service VT1.5 facilities on a synchronous transport signal (STS-1) facility (with ALLVT1 request) or all in-service DS1 facilities on an STS-1 facility (with ALLDS1 request).

CAUTION: Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of ROP output if all 28 facilities are in-service.

Format 22 is used to request an output report of performance monitoring counts for a specified DNU-S VT1.5 facility.

Format 23 is used to request an output report of performance monitoring counts for a specified DNU-S DS1 facility.

Format 24 is used to request the current user input message requested ACS on the specified OIU. The OP:FAC output message indicates the OIU's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OIU's.)

Format 25 is used to request the current user input message requested ACS on a specified OIU optical carrier level 3 (OC3) facility number. The OP:FAC output message indicates the OC3's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OC3's.)

Format 26 is used to request the current user input message requested ACS on a specified OIU synchronous transport signal level 1 (STS1) facility. The OP:FAC output message indicates the STS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STS1's.)

Format 27 is used to request the current user input message requested ACS on a specified OIU virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 28 is used to request the current user input message requested ACS on a specified OIU digital signal level 1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 29 is used to request an output report of performance monitoring counts for the selected side, in-service OC3 facilities for each protection group on an OIU.

Format 30 is used to request an output report of performance monitoring counts for a specified OC3 facility on an OIU.

Format 31 is used to request an output report of performance monitoring counts for a specified STS1 facility on an OIU.

Format 32 is used to request an output report of performance monitoring counts for a specified VT1.5 facility on an OIU.

Format 33 is used to request an output report of performance monitoring counts for a specified DS1 facility on an OIU.

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Format 34 is used to request an output report of performance monitoring counts for all in-service VT1.5 facilities on a synchronous transport signal (STS-1) facility (with ALLVT1 request) or all in-service DS1 facilities on an STS-1 facility (with ALLDS1 request).

CAUTION: Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of ROP output if all 28 facilities are in-service.

Format 35 is used to request the current user input message requested ACS on a specified OIU optical carrier level 3 concatenated (OC3C) facility number. The OP:FAC output message indicates the OC3C's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OC3C's.)

Format 36 is used to request the current user input message requested ACS on a specified OIU synchronous transport signal level 3 concatenated (STS3C) facility. The OP:FAC output message indicates the STS3C's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STS3C's.)

Format 37 is used to request an output report of performance monitoring counts for a specified OC3C facility on an OIU.

Format 38 is used to request an output report of performance monitoring counts for a specified STS3C facility on an OIU.

Format 39 is used to request an output report of the vacant DS1 trunking facilities on DLTU, PLTU, DNU and OIU.

Format 40 is used to request the current user input message requested ACS on a specified OIU PPP link (PPPLK). The OP:FAC output message indicates the PPPLK's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the PPPLK's.)

Format 41 is used to request an output report of performance monitoring counts for a protocol layer or protocol layers associated with the specified OIU PPP link. If no protocol layer is specified, performance monitoring counts for all protocol layers associated with the PPP link will be output. A request for history performance monitoring counts will only be allowed if counts for a specific protocol layer are to be output. A request for performance monitoring counts for all protocol layers will not allow the history count option.

Format 42 is used to request an output report of performance monitoring counts for the expansion access interface unit (EAIU) timeslot group (TSGRP).

Format 43 is used to request the current ACS on the specified PSU. If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the PSU's. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V View 20.32) override any input message requested 'allows'.

Format 44 is used to request the current ACS on a specified SIP PH (other PHs are not allowed). If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the SIP PH's. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V View 20.32) override any input message requested 'allows'.

Format 45 is used to request the performance monitoring counts for a protocol layer associated with the specified SIP PH. If no protocol layer is specified, performance monitoring counts for all protocol layers associated with the SIP PH will be output. A request for history performance monitoring counts will only be

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allowed if counts for a specific protocol layer are to be output. A request for performance monitoring counts for all protocol layers will not allow the history count option.

2. FORMAT

[1] OP:FAC,DFAC=a-b-c-0;

---

[2] OP:FAC,DFAC=a-b-c-d,ACS;

---

[3] OP:FAC,DFI=a-b-c,ACS;

---

[4] OP:FAC,DLTU=a-b,ACS;

---

[5] OP:FAC,DFAC=a-b-c-d[,CURR][,PREV][,HIST];

---

[6] OP:FAC,DFI=a-b-c[,CURR][,PREV];

---

[7] OP:FAC,DLTU=a-b[,CURR][,PREV];

---

[8] OP:FAC,IDCU=a-e[,CURR][,PREV][,COND][,u];

---

[9] OP:FAC,IFAC=a-e-f[,CURR][,PREV][,HIST]][,u];

---

[10] OP:FAC,{DNUSRT=a-h-g|IDCURT=a-e-g}[,CURR][,PREV][,u];

---

[11] OP:FAC,SM=a[,ACS];

---

[12] OP:FAC,IDCU=a-e[,ACS];

---

[13] OP:FAC,{DNUSRT=a-h-g|IDCURT=a-e-g}[,ACS];

---

[14] OP:FAC,IFAC=a-e-f[,ACS];

---

[15] OP:FAC,DNUS=a-h,ACS;

---

[16] OP:FAC,EC1STE=a-h-i-j,ACS;

---

[17] OP:FAC,VT1FAC=a-h-i-j-k-l-m,ACS;

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---

[18] OP:FAC,DS1SFAC=a-h-i-j-k-l-m,ACS;

---

[19] OP:FAC,DNUS=a-h[,CURR][,PREV][,COND];

---

[20] OP:FAC,EC1STE=a-h-i-j[,CURR][,PREV][,HIST];

---

[21] OP:FAC,STSFAC=a-h-i-j-k,ALLVT1|ALLDS1[,CURR][,PREV]. . . . . .[,COND][,u];

---

[22] OP:FAC,VT1FAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST][,u];

---

[23] OP:FAC,DS1SFAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST][,u];

---

[24] OP:FAC,OIU=a-n,ACS;

---

[25] OP:FAC,OC3=a-n-o-p-q,ACS;

---

[26] OP:FAC,STS1=a-n-o-p-r,ACS;

---

[27] OP:FAC,VT15=a-n-o-p-r-l-m,ACS;

---

[28] OP:FAC,DS1=a-n-o-p-r-l-m,ACS;

---

[29] OP:FAC,OIU=a-n[,CURR][,PREV][,u][,COND];

---

[30] OP:FAC,OC3=a-n-o-p-q[,CURR][,PREV][,HIST][,u];

---

[31] OP:FAC,STS1=a-n-o-p-r[,CURR][,PREV][,HIST][,u];

---

[32] OP:FAC,VT15=a-n-o-p-r-l-m[,CURR][,PREV][,HIST][,u];

---

[33] OP:FAC,DS1=a-n-o-p-r-l-m[,CURR][,PREV][,HIST][,u];

---

[34] OP:FAC,STS1=a-n-o-p-r,ALLVT1|ALLDS1[,CURR][,PREV]. . . . . .[,COND][,u];

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[35] OP:FAC,OC3C=a-n-o-s-q,ACS;

---

[36] OP:FAC,STS3C=a-n-o-s-t,ACS;

---

[37] OP:FAC,OC3C=a-n-o-s-q[,CURR][,PREV][,HIST][,u];

---

[38] OP:FAC,STS3C=a-n-o-s-t[,CURR][,PREV][,HIST][,u];

---

[39] OP:FAC,VAC[,SM=w[&&x]];

---

[40] OP:FAC,PPPLK=a-n-o-s-t,ACS;

---

[41] OP:FAC,PPPLK=a-n-o-s-t[,CURR][,PREV][,HIST][,v];

---

[42] OP:FAC,AIUTSGRP=a-y-z-a[1];

---

[43] OP:FAC,PSU=a-b[1],ACS;

---

[44] OP:FAC,PSUPH=a-b[1]-c[1]-d[1],ACS;

---

[45] OP:FAC,PSUPH=a-b[1]-c[1]-d[1][,CURR][,PREV][,HIST][,e[1]];

---

3. EXPLANATION OF MESSAGE

ACS = Report the requested unit's last requested or current alert report inhibit/allow status requested using the input message. Recent changeable alert inhibits may be in effect that override input message requested allows.

COND = Conditional request. Report only those facilities that have reported a 15-minute threshold crossing during the current interval or a daily threshold crossing during the current day. Refer to the REPT:FAC output message.

CURR = Report all current 15-minute and day counts (default).

HIST = Report all 32 15-minute interval history counts. For OIU facilities, report all 31 15-minute history counts (the previous 15-minute count is not included in the history interval counts for OIU facilities).

Requesting HIST counts will generate 3 or more pages of ROP output to report all of the history intervals.

PREV = Report all previous 15-minute and day counts. The previous 15-minute count is the same count as the first of the 32 history interval counts for non-OIU facilities. For OIU facilities, the

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previous 15-minute count is not included with the history interval counts.

VAC = Report vacant DS1 trunking facilities.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI-2 facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Integrated digital carrier unit (IDCU) facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`r` = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Type of report counts. Valid value(s):

- `BOTH` = Report counts from both ends of a facility. If the requested facility has only NE or only FE and the BOTH option is used, then the request is processed for only the available option.
- `FE` = Far end. Report counts from the far end of a facility only.
- `NE` = Near end. Report counts from the switch end of the facility only.

`v` = Protocol layer. Valid value(s):

- `ICMP` = Internet control message protocol layer.
- `IP` = Internet protocol layer.
- `PPP` = Point-to-point protocol layer.
- `RTP` = Real-time transport protocol layer.
- `UDP` = User datagram protocol layer.

`w` = Switching module (SM) number or lower limit of a range of SM numbers.

`x` = Upper limit of a range of SM numbers.

`y` = EAIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = SIP protocol layer. Valid value(s):

- `ETH` = Ethernet link layer.
- `ICMP` = Internet control message protocol layer.
- `IP` = Internet protocol layer.
- `SCTP` = Stream control transmission protocol layer.

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SIP = Session initiation protocol layer.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and the OP:FAC output message follows.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ALW:FAC
INH:FAC
INIT:FAC
INIT:REG
OP:REG
```

Output Message(s):

```
INIT:FAC
INIT:REG
OP:FAC
OP:REG
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):

8.1	OFFICE PARAMETERS (MISCELLANEOUS)
20.12	STS-1 FACILITY PROVISIONING (DNU-S)
20.23	IDCU FACILITY EQUIPMENT (IFAC)
20.24	VT1.5 FACILITY PROVISIONING (DNU-S)
20.25	DNU-S PERFORMANCE MONITORING THRESHOLD GROUP (SM2000)
20.29	OIU SONET TERMINATION EQUIPMENT (SM2000)
20.30	HIGH-LEVEL VIRTUAL CONTAINER (OIU)
20.31	LOW-LEVEL VIRTUAL CONTAINER (OIU)
20.32	PERFORMANCE MONITORING THRESHOLD GROUP (OIU, SIP PSUPH)
22.15	PERFORMANCE MONITORING (DLTU)
33.16	SIP-T PROCESSOR GROUP

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OP:FACMAP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request output containing the busy/idle status of umbilical T1 facility channels between a host switching module (HSM) and remote switching module (RSM). This message does not support intercluster link (ICL) facilities.

2. FORMAT

```
OP:FACMAP,FAC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Facility (FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `DATA BASE READ FAILURE` = Failure in reading database for this facility.
- `FACILITY IS NOT AN UMBILICAL FACILITY.` = Facility is not an HSM to/from an RSM umbilical facility.
- `UNIT DOES NOT EXIST` = Bad DLTU number.

`PF` = Printout follows. The request has been accepted and is being processed. The OP:FACMAP output message will follow.

`RL` = Retry later.

5. REFERENCES

Output Message(s):

`OP:FACMAP`

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance Manual*
235-105-250 *System Recovery Manual*

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OP:FACR

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests for a report on either the state of the feature activation counting and reconciliation (FACR) audit or what scheduled requests have been made for execution of the FACR audit.

2. FORMAT

```
OP:FACR:{SCHED|STATUS},[APPL=a];
```

3. EXPLANATION OF MESSAGE

`SCHED` = Request for a print out of all the scheduled FACR enties.

`STATUS` = Request for a report on the status of the FACR audit.

`APPL` = Request refers to a FACR special application audit.

`a` = APPLICATION name of special audit to schedule/check status of.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:FACR output message.

5. REFERENCES

Input Message(s):

```
DEL:FACR
SCHED:FACR
```

Output Message(s):

```
OP:FACR
```

Other Manual(s):
235-040-100 *OA&M Planning Guide*
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance*

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OP:FMCON

Software Release: 5E16(2) and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a check of switching module (SM) flash memory consistency for CORE700 and MHPPC. The input message will compare SM resident flash memory version numbers with the administrative module (AM) disk file version numbers. The OP:FM-SM output message will print either that the SM is consistent or inconsistent.

2. FORMAT

```
OP:FMCON,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number or lower limit of a range of SM numbers. When a range of SM numbers is specified, only valid numbers in the range will be processed. The range of numbers need not start or end with valid SMs.

`b` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`PF` = Printout follows.

`IP` = In progress. May include the following:
- `COMMAND QUEUED, CHECK CMDLOG FOR ACKNOWLEDGMENT.` = A range of SMs was specified.

`NG` = No good. May include the following:
- `NO SM-2000 FOUND` = The request was not accepted because the SM is not an SM-2000.

5. REFERENCES

Input Message(s):

`OP:FMVER`

Output Message(s):

`OP:FMCON-SM`

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OP:FMVER

Software Release: 5E16(2) and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the flash memory component version numbers. The command will collect the administrative module disk file version numbers and resident flash memory versions for a given switching module (SM) or range of SMs. The output message OP:FMVER will print the version information.

2. FORMAT

```
OP:FMVER,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number or lower limit of a range of SM numbers. When a range of SM numbers is specified, only valid numbers in the range will be processed. The range of numbers need not start or end with valid SMs.

`b` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`PF` = Printout follows.

`IP` = In progress. May include the following:
- `COMMAND QUEUED, CHECK CMDLOG FOR ACKNOWLEDGMENT.` = A range of SMs was specified.

`NG` = No good May include the following:
- `NO SM-2000 FOUND` = The request was not accepted because the SM is not an SM-2000.

5. REFERENCES

Input Message(s):

`OP:FMCON`

Output Message(s):

`OP:FMVER-SM`

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OP:FNAME

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Reports the full pathname of a file in a mounted file system. This input message, used to analyze data produced by the FSBLK and FSLINK file system audits, provides pathnames based on the entry of inode or block numbers.

2. FORMAT

```
OP:FNAME,FN="a",{INODE|BLOCK}=b[&&c];
```

3. EXPLANATION OF MESSAGE

`a` = The full pathname of the file system. Note that quotation marks are required.

`b` = Inode or block number; or the lower limit of a range (0-546048) of inode or block numbers.
Note: If an INODE number is specified, the minimum value of 'b' is two.

`c` = The upper limit of a range of inode or block number of a range (0-546048).

4. SYSTEM RESPONSE

Entry of this message may produce one or more of the following system responses. RL responses will only appear if the input message catalog is not active.

`RL` = Retry later. May also include:
- `CANNOT CHANGE DIRECTORY TO /dev` = Unable to change working directory to /dev.
- `CANNOT FIND FILE SYSTEM` = Unable to find the first directory of the mounted file system.
- `CANNOT OPEN FILE SYSTEM` = Cannot open the file system at its mount point.
- `CANNOT READ SUPERBLOCK` = Unable to read the superblock for the file system.
- `CANNOT SEEK TO SUPERBLOCK` = Unable to seek to the file system's superblock.
- `MOUNT TABLE ERROR` = Unable to obtain the mount table from the file manager.

`?D`
- `INCONSISTENT DATA1` = The greater value must be equal to or larger than the lower value in the range.
- `INVALID CHARACTER1` = The first or only range value is not an integer.
- `INVALID CHARACTER2` = The last range value is not an integer.
- `INVALID KEYWORD 1` = FN must be the first keyword.
- `INVALID KEYWORD 2` = INODE or BLOCK must be the second keyword.
- `MISSING DATA1` = No file system name given.
- `MISSING DATA2` = No inode or block # given.

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- `MISSING KEYWORD 1` = FN must appear after FNAME.
- `MISSING KEYWORD 2` = Either INODE or BLOCK must be entered.
- `RANGE ERROR 1, 'a'` = File system requested does not exist. 'a' is the value entered.
- `RANGE ERROR 4` = Reason for error:
  - The lower or only INODE value is less than two.
  - The greater or only INODE value is larger than the maximum allowed in the file system.
- `RANGE ERROR 5` = The greater or only BLOCK value is larger than the maximum allowed in the file system.
- `RANGE ERROR 6` = The lower or only BLOCK value is less than the minimum allowed in the file system.

5. REFERENCES

Input Message(s):

```
AUD:FSBLK
AUD:FSLINK
```

Output Message(s):

```
AUD:FSBLK
AUD:FSLINK
OP:FNAME
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*
235-600-400 *Audits*

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45. OP:G

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OP:G-APPLLOG

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests output of the application hook (APPLHOOK) process log file. Used if problems occur during retrofit or update.

2. FORMAT

```
OP:GEN:APPLLOG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The APPLHOOK log file will be printed. Process not initiated.

5. REFERENCES

Input Message(s):

```
OP:G-READLOG
UPD:G-BEGIN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-END
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-34x *Generic Update Procedures*

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OP:G-READHDR

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that tape header information and, if present, a volume table of contents (VTOC) be read from a load-disk-from-tape (LDFT) formatted tape and output to the receive-only printer (ROP). The data is also written to a file in the /etc/log directory. The data file is used during a software release transition for tape loading.

2. FORMAT

```
OP:GEN:READHDR[,MT0|MT1|,RESET];
```

3. EXPLANATION OF MESSAGE

`MT0` = Select tape drive zero (default).

`MT1` = Select tape drive one.

`RESET` = Remove the data file written by a previous OP:G-READHDR request from the /etc/log directory.

4. SYSTEM RESPONSE

`NG` = No good. The request was denied because of an illegal option, or illegal combination of options.

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
OP:G-READLOG
STOP:GEN
UPD:G-APPLPROC
UPD:G-BACKOUT
UPD:G-BEGIN
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-END
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
UPD:G-SMBKOUT
```

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```
UPD:G-SMSWITCH
UPD:G-SWITCHBCK
UPD:G-SWITCHFWD
```

Output Message(s):

```
OP:GEN-READLOG
STOP:GEN
UPD:GEN-APPL
UPD:GEN-BACKOUT
UPD:GEN-BEGIN
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-END
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
UPD:GEN-SMBKOUT
UPD:GEN-SMSWITCH
UPD:GEN-SWITCHBK
UPD:GEN-SWITCHFW
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*
235-105-44x *Large Terminal Growth*

MCC Display Page(s):

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OP:G-READLOG

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests output of the central processor or administrative module system update event log. This is used if problems occur while updating the system to determine the current state of affairs.

2. FORMAT

```
OP:GEN:READLOG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by the OP:GEN-READLOG output message.

5. REFERENCES

Input Message(s):

```
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
```

Output Message(s):

```
OP:GEN-READLOG
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

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OP:GENBKUP-LAST

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that records of the last successful office backup activities using GENBKUP (the automated office backup procedure) be printed.

This message prints the same information (such as, when the last AM text backup tape was made) displayed on screen at the start of GENBKUP process without going into GENBKUP process.

2. FORMAT

```
OP:GENBKUP:LAST;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:GENBKUP-LAST output message.

5. REFERENCES

Input Message(s):

```
RCV:M-GENBKUP
```

Output Message(s):

```
OP:GENBKUP-LAST
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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OP:GROW

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Provides a list of all administrative module (AM) hardware units currently in the growth maintenance state. This format provides a list of all growth units of a particular type.

2. FORMAT

```
OP:GROW[,{a[=b][,c=d]}];
```

3. EXPLANATION OF MESSAGE

`a` = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:GROW output message.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT-3B
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

Output Message(s):

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```
OP:CFGSTAT
OP:GROW
```

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OP:GSME

Software Release: 5E19(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the status of the global switching module (GSM) escalation feature be queried.

2. FORMAT

```
OP:GSME;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `FEATURE IS NOT ACTIVE` = GSM escalation feature currently disabled.

`PF` = Printout Follows. Followed by the OP:GSME output message.

5. REFERENCES

Output Message(s):

`OP:GSME`

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46. OP:H

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OP:HBPRT

Software Release: 5E20(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

To request the status of executive cellular processor (ECP) heartbeat printing functionality.

2. FORMAT

```
OP:HBPRT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
ALW:HBPRT
INH:HBPRT
```

Output Message(s):

```
REPT:HBPRT
OP:HBPRT
```

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OP:HDWCHK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the hardware check status of the specified unit or set of units.

2. FORMAT

```
OP:HDWCHK,{CM|MSCU=a|MMP=a-b|CMP=a-b|QGP=a-b|FPC=a|PPC=a|ONTC=c|
NCREF,{XC=c|PRIM=c|SEC=c}|CLNK=d-c-e-a};
```

3. EXPLANATION OF MESSAGE

`CM` = Provide the hardware check status for all of the above communication module (CM) units that are in service but have hardware checks inhibited.

`a` = (MSCU) Message switch number for message switch control unit, (MMP) module message processor, (CMP) communication module processor, (QGP) quad-link packet switch gateway processor, (FPC) foundation peripheral controller, (PPC) pump peripheral controller, or (CLNK) communication link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number.

`c` = Office network and timing complex (ONTC) number for ONTC, cross-couple reference (XC) of network clock model 1 or 2, primary reference (PRIM) of network clock model 1, secondary reference (SEC) of network clock model 1, or CLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Switching module (SM) number for CLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Type of module message processor for CLNK. Valid value(s):

- `0` = MMP handling the even control time slot associated with the SM.
- `1` = MMP handling the odd control time slot associated with the SM.

`f` = Network clock reference number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the OP:HDWCHK output message.

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5. REFERENCES

Output Message(s):

```
OP:HDWCHK
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

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OP:HIST

Software Release: 5E15 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

The OP:HIST input request prints a range of the stored requests from the history buffer to the terminal. OP:HIST gives the user the ability to review a section of the stored requests available in the command history buffer, and identify their associated numbers. The user may then recall a stored request using the associated number.

OP:HIST will be honored if any portion of the applicable range is available in the command history buffer. This permits the user to hunt for a stored request without having to be completely within the available range of associated numbers.

Format 1 outputs the last 15 of the available stored requests.

Format 2 outputs the available stored requests from the specified range of 'a' to 'b'. The 'b' parameter is optional. If only the 'a' parameter is given, the range will be 'a' to 'a'+15.

Format 3 outputs the last 'c' of the available stored requests. If fewer than 'c' requests are available, the request is applied to the available ones.

Format 4 outputs all of the available stored requests. This can be up to 200 requests, so discretion is advised. For additional information about the use of the history function, refer to the "Input Message Edit and History" portion of the USER GUIDELINES section of the Input Messages manual.

2. FORMAT

```
[1]    OP:HIST;

[2]    OP:HIST,CMD=a[&&b];

[3]    OP:HIST,TAIL=c;

[4]    OP:HIST,ALL;
```

3. EXPLANATION OF MESSAGE

a = Lowest associated number for requested range.

b = Highest associated number for requested range (optional).

c = Number of most recently stored requests to output.

d = Lowest number of the available range.

e = Highest number of available range.

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4. SYSTEM RESPONSE

NG = No good. The requests could not be output, the request is rejected. Rejection reasons are:
- FILE OPEN FAILURE = The output file could not be opened.
- NO COMMANDS ARE STORED = There are no stored input requests.
- RANGE UNAVAILABLE, CMD d TO e = The range requested does not have any intersection with the available associated number range. The available range is given to aid the user for another attempt.

PF = Printout follows. The request was accepted and is followed by the OP:HIST output message.

5. REFERENCES

Input Message(s):

```
ALW:HIST
CLR:HIST
INH:HIST
```

Output Message(s):

```
OP:HIST
```

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OP:HISTORY-A

Software Release: 5E15 - 5E17(1)
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the printing of the most recently retained (logged) output reports and/or the event history from the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or from the specified packet switching unit protocol handler (PSUPH). The desired PSUPH may also be referenced by its currently associated channel group (CHNG). If RCVY is specified, then the recovery output report history will be printed. If EVENT is specified, then the event history will be printed. If neither RCVY nor EVENT are specifically requested, then by default both will be printed. However, event history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

The print mode of the PSUPH or PI may be changed through this message as well. Once the print mode of a PSUPH or PI is set to "ON", the unit's output reports will be printed on the read-only printer (ROP) until manually changed.

For PH hardware types other than PH2, this will also generate the PH event history report. For PI2 hardware type of packet interface (PI), this will also generate the PI event history report.

2. FORMAT

```
OP:HISTORY,{PSUPH=a-b-c-d|CHNG=a-b-c-e|MCTSI=a-f,PI}. . .
 . . .[,RCVY][,EVENT][,PRNTMODE={ON|OFF}];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = CHNG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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IP = In progress. The input message was accepted and the printing of the requested history is in progress.

NG = No good. The input message was not accepted because the SM is isolated or the equipment does not exist.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

5. REFERENCES

Input Message(s):

```
CHG:PRNTMODE
OP:PM-PP-MCTSI
RLS:PM-PP-MCTSI
```

Output Message(s):

```
REPT:PP-EP
REPT:PP-EM
```

Input Appendix(es):

```
APP:RANGES
```

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OP:HISTORY-B

Software Release: 5E18(1) - 5E19(1)
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Format 1 requests the printing of the most recently retained (logged) output reports and/or the event history from the specified packet interface (PI) of the module controller time slot interchanger (MCTSI), or from the specified packet switching unit protocol handler (PSUPH).

The desired PSUPH may also be referenced by its currently associated channel group (CHNG). If RCVY is specified, then the recovery output report history will be printed. If EVENT is specified, then the event history will be printed. If neither RCVY nor EVENT are specifically requested, then by default both will be printed. However, event history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

The print mode of the PSUPH or PI may be changed through this message as well. Once the print mode of a PSUPH or PI is set to "ON", the unit's output reports will be printed on the ROP until manually changed.

For PH hardware types other than PH2, this will also generate the PH event history report. For PI2 hardware type of packet interface (PI), this will also generate the PI event history report.

Format 2 is applicable only for the enhanced packet switching unit (PSU2E), and requests the printing of the most recently retained event history from either the specified control fanout (CF) or the packet fanout (PF) unit on the PSU2E common board (PSUCOM). One can specify the number of desired events to print using the EVCNT field. If EVCNT is not specified, 21 events (3 message blocks) will be printed.

2. FORMAT

```
[1]    OP:HISTORY,{PSUPH=a-b-c-d|CHNG=a-b-c-e|MCTSI=a-f,PI}. . .
        . . .[,RCVY][,EVENT][,PRNTMODE={ON|OFF}];
       ____________________________________________________________

[2]    OP:HISTORY,PSUCOM=a-b-g,{CF|PF=h}[,EVCNT=i];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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d = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = CHNG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = PSUCOM side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = PF shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Number of PF3/CF3 events to be printed. Default value = 21. Range is from 1 to 255.

4. SYSTEM RESPONSE

IP = In progress. The input message was accepted and the printing of the requested history is in progress.

NG = No good. The input message was not accepted due to several possible causes. They include:
- The SM is isolated.
- The equipment does not exist.
- The equipment is out of service.
- The equipment is unavailable.

In addition, for Format 2, in order to get either CF or PF history status, the PSUCOM must be active. In order to get PF status, the corresponding PSU shelf must also be active.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

5. REFERENCES

Input Message(s):

```
CHG:PRNTMODE
OP:PM-PP-MCTSI
RLS:PM-PP-MCTSI
```

Output Message(s):

```
REPT:PP-EP
REPT:PP-EM
```

Input Appendix(es):

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```
APP:RANGES
```

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OP:HISTORY-C

Software Release: 5E20(1) and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Format 1 requests the printing of the most recently retained (logged) output reports and/or the event history from the specified packet interface (PI) of the module controller time slot interchanger (MCTSI), or from the specified packet switching unit protocol handler (PSUPH).

The desired PSUPH may also be referenced by its currently associated channel group (CHNG). If RCVY is specified, then the recovery output report history will be printed. If EVENT is specified, then the event history will be printed. If neither RCVY nor EVENT are specifically requested, then by default both will be printed. However, event history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

The print mode of the PSUPH or PI may be changed through this message as well. Once the print mode of a PSUPH or PI is set to "ON", the unit's output reports will be printed on the ROP until manually changed.

For PH hardware types other than PH2, this will also generate the PH event history report. For PI2 hardware type of packet interface (PI), this will also generate the PI event history report.

Format 2 is applicable only for the enhanced packet switching unit (PSU2E) or intelligent packet switch (IPS), and requests the printing of the most recently retained event history from either the specified control fanout (CF) or the packet fanout (PF) unit on the PSU2E or IPS common board (PSUCOM). One can specify the number of desired events to print using the EVCNT field. If EVCNT is not specified, 21 events (3 message blocks) will be printed.

2. FORMAT

```
[1]    OP:HISTORY,{PSUPH=a-b-c-d|CHNG=a-b-c-e|MCTSI=a-f,PI}. . .
        . . .[,RCVY][,EVENT][,PRNTMODE={ON|OFF}];
       _____________________________________________________

[2]    OP:HISTORY,PSUCOM=a-b-g,{CF|PF=h}[,EVCNT=i];
       _____________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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d = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = CHNG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = PSUCOM side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = PF shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Number of PF3/CF3 events to be printed. Default value = 21. Range is from 1 to 255.

4. SYSTEM RESPONSE

IP = In progress. The input message was accepted and the printing of the requested history is in progress.

NG = No good. The input message was not accepted due to several possible causes. They include:
- The SM is isolated.
- The equipment does not exist.
- The equipment is out of service.
- The equipment is unavailable.

In addition, for Format 2, in order to get either CF or PF history status, the PSUCOM must be active. In order to get PF status, the corresponding PSU shelf must also be active.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

5. REFERENCES

Input Message(s):

```
CHG:PRNTMODE
OP:PM-PP-MCTSI
RLS:PM-PP-MCTSI
```

Output Message(s):

```
REPT:PP-EP
REPT:PP-EM
```

Input Appendix(es):

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```
APP:RANGES
```

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OP:HPRI

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

To determine the status of high priority terminal feature.

For more information on the feature, refer to the SET:HPRI input manual page.

2. FORMAT

```
OP:HPRI
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. The OP:HPRI output message will be printed.

`NG` = No good. The message entered is invalid. May also include:
- `SPECIAL FEATURE NOT AVAILABLE` = Secured feature bit is not turned on.

5. REFERENCES

Input Message(s):

```
SET:HPRI
CLR:HPRI
```

Output Message(s):

```
OP:HPRI
```

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OP:HSD

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a high speed synchronous data link (HSD).

2. FORMAT

```
OP:HSD=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = Member number.

4. SYSTEM RESPONSE

`PF` Printout follows. Followed by an OP:HSD output message.

5. REFERENCES

Output Message(s):

`OP:HSD`

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OP:HSDC

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a high speed synchronous data link controller (HSDC).

2. FORMAT

```
OP:HSDC=a:INFO;
```

3. EXPLANATION OF MESSAGE

a	= Member number.

4. SYSTEM RESPONSE

PF	Printout follows. Followed by an OP:HSDC output message.

5. REFERENCES

Output Message(s):

OP:HSDC

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OP:HTR

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that all destinations assigned to the hard-to-reach (HTR) list be listed.

2. FORMAT

```
OP:HTR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = Not good. Valid value(s):
- `FEATURE NOT AVAILABLE` = The HTR feature is not available.

`PF` = Printout follows. Followed by the OP:HTR output message.

`RL` = Retry later. Includes one of the following:
- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:MHTR
CLR:MHTR
```

Output Message(s):

```
OP:HTR
```

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47. OP:I

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OP:ILHB

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the report of the incoming line history block (ILHB) information for local area signaling services (LASS).

2. FORMAT

```
[1]    OP:ILHB,DN=a;

[2]    OP:ILHB,b[,PTY=c];
```

3. EXPLANATION OF MESSAGE

a = Ten-digit directory number (DN) of the line.

b = Equipment numbers. Valid value(s):

```
ILEN=d-e-f-g
 LCEN=d-u-t-j
 LCKEN=d-u-i-r-s
 LEN=d-h-k-l-m-n
 SLEN=d-o-p-q
```

c = Party.

For an analog ILEN, LEN, LCEN, or SLEN [refer to RC/V View 1.6 for the specified office equipment (OE) number]:

0–9	= Multi-party (4, 5, 8, or 10 party lines).
I	= Individual line (default).
R	= 2 party ring.
T	= 2 party tip.

For an ISDN LCEN, ILEN, or LCKEN (refer to RC/V View 23.1 for the specified OE number):

0–7	= Multi-point.
I,0	= Point-point (default).

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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g = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = ISDN line unit (ISLU/ISLU2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):

- INVALID OFFICE EQUIPMENT NUMBER = This request was denied because an invalid office equipment number was entered.
- MUST ENTER TEN NUMERIC DIGITS = This request was denied because ten numeric

digits must be entered.

`PF` = Printout follows. The request has been accepted and is followed by the OP:ILHB output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

`OP:ILHB`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-190-130 *Local Area Signaling Services Features*

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OP:INIT

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Provides a list of all currently initializing administrative module (AM) hardware units. This format provides a list of all initializing units of a particular type.

2. FORMAT

```
OP:INIT[,{a[=b][,c=d]}];
```

3. EXPLANATION OF MESSAGE

`a` = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:INIT output message.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT-3B
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

Output Message(s):

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```
OP:CFGSTAT
OP:INIT
```

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OP:INVEN-A

Software Release: 5E16(2) - 5E19(1)
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests inventory data be printed for circuit packs residing on an optical interface unit (OIU) or access interface unit (AIU).

Format 1 requests inventory data for all optical facility interface (OFI) circuit packs on a given OIU or switching module (SM).

Format 2 requests inventory data for all circuit packs on a given AIU.

2. FORMAT

```
[1]    OP:INVEN,SM=a,OIU={b|ALL};
       _____________________________________________________________

[2]    OP:INVEN,SM=a,AIU=b;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ALL` = print data for all OIUs on a given SM.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and an OP:INVEN output message will follow.

`NG` = No good. May also include:
- `NO SUCH SM` = The message syntax is valid, but the requested SM does not exist.
- `SM UNEQ` = The message syntax is valid, but the requested SM is unequipped.
- `INVALID SM` = The message syntax is valid, but the requested SM is a classic SM.
- `UNIT UNEQ` = The message syntax is valid, but the requested unit is unequipped.

`RL` = Retry later. The request cannot be executed now due to a loss of communication to the requested SM.

5. REFERENCES

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Output Message(s):

```
OP:INVEN
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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OP:INVEN-B

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests inventory data be printed for circuit packs residing on an optical interface unit (OIU), access interface unit (AIU) or packet switching unit (PSU).

Format 1 requests inventory data for all optical facility interface (OFI) circuit packs on a given OIU or switching module (SM).

Format 2 requests inventory data for all circuit packs on a given AIU.

Format 3 requests inventory data for all circuit packs on a given PSU.

2. FORMAT

```
[1]    OP:INVEN,SM=a,OIU={b|ALL};
       ____________________________________________________________

[2]    OP:INVEN,SM=a,AIU=b;
       ____________________________________________________________

[3]    OP:INVEN,SM=a,PSU=b;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ALL` = print data for all OIUs on a given SM.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and an OP:INVEN output message will follow.

`NG` = No good. May also include:
- `NO SUCH SM` = The message syntax is valid, but the requested SM does not exist.
- `SM UNEQ` = The message syntax is valid, but the requested SM is unequipped.
- `INVALID SM` = The message syntax is valid, but the requested SM is a not an SM-2000.
- `UNIT UNEQ` = The message syntax is valid, but the requested unit is unequipped.

`RL` = Retry later. The request cannot be executed now due to a loss of communication to the

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requested SM.

5. REFERENCES

Output Message(s):

```
OP:INVEN
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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OP:IODRV

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Reports the current options set for the administrative module (AM) input/output processor (IOP) driver messages.

Note: If none of the options is specified, this message will report all of the severity level option settings, the handler identification option setting, and the class option settings that are turned on, and whether MSGSAVE is ON or OFF.

2. FORMAT

```
OP:IODRV[:[LVL][,ID][,CLASS][,MSGSAVE]];
```

3. EXPLANATION OF MESSAGE

`CLASS` = Report the class option setting.

`ID` = Report the handler identification option setting.

`LVL` = Report the severity level option setting.

`MSGSAVE` = Report whether or not IOP error messages are being saved in the IODRVLOG logfile.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by the OP:IODRV output message.

5. REFERENCES

Output Message(s):

`OP:IODRV`

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OP:IOP

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about an IOP member number.

2. FORMAT

```
OP:IOP=a;INFO!
```

3. EXPLANATION OF MESSAGE

`a` = IOP member number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:IOP output message.

5. REFERENCES

Output Message(s):

`OP:IOP`

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OP:IPCFG

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the output of IP address and subnet mask configuration information matching the following specified characteristics. These include:

- The entire office.
- A specific SM.
- A specific IP address.
- A specific network identifier.

Output will include the SM, IP address, subnet mask, network ID, equipment and interface type. The equipment information displayed depends on the equipment type. It includes the unit type, unit number and protection group for OIU-IP facilities. For PHs, the output includes the PSU number, PSU shelf, channel group (PH number) and processor group (for SIP PHs). The interface type indicates if the IP address is used internally (for example, SM/PH processor IP assignments on the *5ESS®* switch) or if the address is associated with external interfaces (OC-3c, ethernet, X.25).

Only one OP:IPCFG request may be processed by the system at any moment. Additional requests will be denied.

WARNING: Requesting this message may cause an enormous amount of data to be printed on the ROP. The use of any format could cause a degradation in switch service.

The input message, STP:IPCFG, can be used to halt the printing of this input message should system operation be impacted by this message.

2. FORMAT

```
[1]    OP:IPCFG,OFFICE;
```

```
[2]    OP:IPCFG,SM=a;
```

```
[3]    OP:IPCFG,IPADR=b;
```

```
[4]    OP:IPCFG,NID=c;
```

3. EXPLANATION OF MESSAGE

`a` = SM number. Search for IP configuration information is restricted to specified SM. Refer to

the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IP address. Consisting of a hyphen separated decimal number with a maximum of 15 characters. This is the internet protocol address. Its format is `xxx-xxx-xxx-xxx` where `xxx` ranges from 0 to 255.

`c` = Network ID. Refer to APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and an OP:IPCFG output message will follow.

`RL` = Retry later. May also include:

- `FAILED TO CREATE PROCESS` = The process that would service the request could not be created, or did not receive the request, probably due to system load.
- `REQUEST ALREADY IN PROGRESS` = An OP:IPCFG request is already running. Only one request is allowed to run at a time.
- `TOO MANY PROCESSES ACTIVE` = A process to service the request cannot be created because the maximum number of active maintenance processes has been reached.

5. REFERENCES

Input Message(s):

`STP:IPCFG`

Output Message(s):

`OP:IPCFG`
`STP:IPCFG`

Input Appendix(es):

`APP:RANGES`

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OP:IPCON

Software Release: 5E20(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the internet protocol (IP) connectivity status for protocol handler (PH) for ethernet version (PHEs) for both IP soft handoff (SHO) and network PH (NPH) PH group (PHGRP) on an intelligent packet switch (IPS). This message covers the following:

Format 1 requests the IP connectivity status for an IPSHO PHGRP for the following:

- PHE4s on the specific IPS determined by the far end community address (FARCA) and the far end subnetwork (FARSN).
- PHE4s on IPSs in the specific subnet determined by FARSN.
- PHE4s on IPSs in all subnets.

Output will include the FARSN, FARCA, high priority mismatch counts and low priority mismatch counts.

For Format 2, use the CLEAR option to clear out entries in the unreachable destination IP address table stored in the specific NPH. Default is the serving NPH. Use together with NONSERV option to clear out table from the non-serving NPH.

IP connectivity data are collected from the serving PH as default. Use the NONSERV option if data from the non-serving PH are desired.

Output includes:

- The mate PHE IP connectivity status between two PHE in the same NPH PHGRP.
- The summary status of unreachable IP destination addresses kept by the SM.
- The total count of unreachable IP destination addresses recorded by the PHE in this period from either the serving (default) or non-serving PH (NONSERV option).
- A list of recent unreachable IP destination addresses (up to 15) from either the serving (default) or non-serving PH (NONSERV option).

Format 3 requests a summary of IP connectivity status for each IP SHO and NPH PHGRP in the SM.

Format 4 requests a summary of IP connectivity status for each IP SHO and NPH PHGRP in the PSU.

Only one Format 1 or 2 request may be processed by the system at a time. Additional requests will be denied.

2. FORMAT

```
[1]    OP:IPCON,PSUCA=c|PHGRP=a-b-d[,FARCA=e][,FARSN=f][,MISMATCH][,CLEAR];
       ____________________________________________________________________

[2]    OP:IPCON,PHGRP=a-b-d[,CLEAR][,NONSERV];
       ____________________________________________________________________

[3]    OP:IPCON,SM=a;
       ____________________________________________________________________
```

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```
[4]    OP:IPCON,PSU=a-b;
```

---

3. EXPLANATION OF MESSAGE

`CLEAR` = Clear data.

`MISMATCH` = Mismatch data.

`NONSERV` = Use when requesting data/action from non-serving PH are desired.

`a` = SM number.

`b` = PSU number.

`c` = PSU community address.

`d` = PH group number.

`e` = Far end PSU community address.

`f` = Far end subnet.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:IPCON output message.

`NG` = No good. May also include:
- `INVALID PSU` = The given PSU is unequipped.
- `INVALID SM` = The given SM is unequipped.
- `MESSAGE NOT SENT TO PH` = Failed to send message to PH - retry later.
- `OP IPCON IS RUNNING` = Previous command is in progress.
- `PH UNAVAILABLE` = The serving or non-serving PH is unavailable.
- `PHE OOS` = PHE is out of service.
- `PHGRP IN GROWTH` = The given PHGRP is in growth.
- `PHGRP OOS` = The given PHGRP is OOS.
- `PHGRP UNEQUIPPED` = The given PH group (PHGRP) is not equipped.
- `SM UNAVAILABLE` = SM is unavailable - retry later.
- `SYSTEM ERROR` = Failed to get requested status due to system error.

5. REFERENCES

Output Message(s):

`OP IPCON`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):
1188 PHGRP STATUS

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OP:IPTRFC

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests monitoring of internet protocol (IP) traffic on a IP soft hand-off (SHO) group.

This message requests monitoring of the following:
- PSU-TO-PSU traffic measurement interface counts.
- PSU-TO-PSU traffic measurement error counts.
- Packet switching unit (PSU) community address traffic measurement counts.
- PSU community address measurement summary percent counts.

2. FORMAT

```
OP:IPTRFC,PHGRP=a-b-c[,FARSN=d][,FARCA=e][,TYPE=f][,NONSERV][,ERR];
```

3. EXPLANATION OF MESSAGE

`ERR` = Error measurement counts.

`NONSERV` = Non-serving PH group.

`a` = SM number.

`b` = PSU number.

`c` = Protocol handler (PH) group number.

`d` = Far end subnet number.

`e` = Far end PSU community address.

`f` = Inter or intra digital cellular switch (DCS).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- `FARCA MUST NOT EQUAL TO NEARCA WHEN FARSN NOT ENTERED` = The request has been denied. The message is valid but the far end community address is equal to the near end community address if the far end subnet is not entered.

`PF` = Printout follows. Followed by the OP:IPTRFC output messages.

`RL` = Retry later. May also include:

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- SM UNAVAILABLE = The request has been denied. The message is valid but the SM is not available.

5. REFERENCES

Output Message(s):

OP:IPTRFC

Input Appendix(es):

APP:RANGES

48. OP:J

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OP:JOBSTATUS-A

Software Release: 5E15 - 5E16(1)
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of all terminal maintenance jobs initiated through the trunk and line work station (TLWS) maintenance automatic task administrator or the *AUTOPLEX®* automatic task administrator (AATA) currently active in the system. If the job type (JOB) is omitted, the default job type is TLWS.

2. FORMAT

```
OP:JOBSTATUS[,JOB=a];
```

3. EXPLANATION OF MESSAGE

`a` = Job type. Valid value(s):

`AATA`	= AATA maintenance task.
`TLWS`	= TLWS maintenance task.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the OP:JOBSTATUS output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ABT:OTO
ABT:TASK
CLR:PB
EXC:CCSCQ
EXC:CCSXLATE
EX:OTO
INIT:FAC
OP:AML
OP:CAMPON
OP:CGA
OP:CONV
OP:CPE
OP:FAC
OP:LIST
OP:LISTOTO
OP:OSPS
OP:PB
```

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```
OP:SCF
OP:SL
OP:SS7
OP:ST-PORTS
OP:TGCNT
RMV:CPE
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:CPE
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
SET:PB
STP:CAMPON
STP:CCSCQ
STP:LIST
STP:TST-DSL
STP:TST-ELS
STP:TST-TRK
STP:TST-PATH
TST:DSL
TST:LINE-ELS
TST:MP
TST:TRK
TST:PATH
```

Output Message(s):

```
OP:JOBSTATUS
```

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OP:JOBSTATUS-B

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of all terminal maintenance jobs initiated through the trunk and line work station (TLWS) maintenance automatic task administrator or the *AUTOPLEX®* automatic task administrator (AATA) currently active in the system. If the job type (JOB) is omitted, the default job type is TLWS.

2. FORMAT

```
OP:JOBSTATUS[,JOB=a];
```

3. EXPLANATION OF MESSAGE

`a` = Job type. Valid value(s):

`AATA`	= AATA maintenance task.
`TLWS`	= TLWS maintenance task.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the OP:JOBSTATUS output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
ABT:OTO
ABT:TASK
CLR:PB
EXC:CCSCQ
EXC:CCSXLATE
EX:OTO
INIT:FAC
OP:AML
OP:CAMPON
OP:CGA
OP:CONV
OP:CPE
OP:FAC
OP:LIST
OP:LISTOTO
OP:OSPS
OP:PB
```

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```
OP:SCF
OP:ST-SCTP
OP:SL
OP:SS7
OP:ST-PORTS
OP:TGCNT
RMV:CPE
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:SCTP
RMV:TRK
RST:CPE
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:SCTP
RST:TRK
SET:PB
STP:CAMPON
STP:CCSCQ
STP:LIST
STP:TST-DSL
STP:TST-ELS
STP:TST-TRK
STP:TST-PATH
TST:DSL
TST:LINE-ELS
TST:MP
TST:TRK
TST:PATH
```

Output Message(s):

```
OP:JOBSTATUS
```

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49. OP:L

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OP:LASSRQST

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests local area signaling services (LASS) screen list editing (SLE) validation of a ten-digit directory number (DN). A LASS user can add a DN to a list after the DN passes certain validation checks. A caller whose number appears in the list is then given special treatment based on the LASS selective features (LSF) the user has activated.

This input message performs the validation checks to assist in diagnosing validation failures.

2. FORMAT

```
OP:LASSRQST,DN=a[,LATA=b][,OPC=c][,PLATFORM=d];
```

3. EXPLANATION OF MESSAGE

`a` = The ten-digit DN to be validated.

`b` = An optional three digit absolute local access transport area (LATA) number (100-999). The TCAP improvements feature for a switch spanning multiple LATAs must be purchased for this option to work.

`c` = Origination point code consisting of nine digit character string. Refer to the APP:POINT-CODE appendixes in the Appendixes section of the Input Messages manual.

`Note:` This option is mandatory in a multi-platform office.

`d` = Signaling Platform. Valid value(s):
`0` = Common Network Interface (CNI) Platform
`1 - 192` = Global Switching Module (GSM) Number

`Note:` This option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `CCS MESSAGE TRANSPORT PATH UNAVAILABLE` = SS7 PSU signaling links are not available.
- `DN MUST BE 10 DIGITS` = DN entered must have ten digits. Each digit must be a numeric character from 0 to 9.
- `GSM/PROTOCOL MISMATCH` = The GSM and the protocol do not match, missing or incorrect data.
- `LATA MUST BE 3 DIGITS [100 - 999]` = LATA entered must have three digits.

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- MUST ENTER OPC = The origination point code must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
- MUST ENTER PLATFORM = The signaling platform must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and switch unit (PSU) platforms.
- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid, the number of digits entered is incorrect, or the point code was not provisioned in the office.
- OPC IS NOT AVAILABLE = Could not get the point code. There was missing or incorrect data in the input message.
- OPC NOT ON PLATFORM = Could not find the point code on the platform entered.
- PLATFORM IS INVALID = The entered signaling platform is either invalid or the platform entered is not provisioned in the office.

NO = The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The TCAP improvements feature for a switch spanning multiple LATAs must be purchased for the "LATA" option to work.

PF = Printout follows. The DN validation request was accepted. Followed by the OP:LASSRQST output message.

RL = Retry later. Valid value(s):
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.

.LI The message was not accepted because of a temporary lack of available resources.

5. REFERENCES

Output Message(s):

OP:LASSRQST

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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OP:LIB-DISK

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Requests information about the library programs that exist on the administrative module (AM) disk. With the filename specified, it will only report on that filename. With no name mentioned, it will report on all library programs in the library program directory.

2. FORMAT

```
OP:LIB:DISK[,FN="a"];
```

3. EXPLANATION OF MESSAGE

`a` = The name of the program to be reported on. If this option is omitted, all library programs will be listed.

4. SYSTEM RESPONSE

`NG` = No good. The library program directory cannot be read. Check permissions on directory "/no5text/lib".

`PF` = Printout follows. A report will follow.

5. REFERENCES

None.

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OP:LIB-STATUS

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Requests information about the current status of library programs currently loaded or running on the system.

2. FORMAT

```
OP:LIB:STATUS[,TEAM=a][,AM]{,SM=b|,SM=c&&d};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`AM` = The input message should be sent to the library program running in the administrative module (AM) under this team.

`a` = The team number (1-15) to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.

`b` = The SM to which this message should be directed. The team specified must have a library program running in the SM(s) listed.

`c` = The first SM in the range '`c`' to '`d`'.

`d` = The last SM in the range '`c`' to '`d`'. There can be up to 5 SM numbers listed.

4. SYSTEM RESPONSE

`NG` = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

`PF` = Printout follows. Message has been sent to the SMs/AM or TEAM specified.

5. REFERENCES

Other Manual(s):

None.

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OP:LIST-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request. Any port type that uses the digital facility interface (DFI) can be listed by specifying the DFI. Any port type that uses the digital network unit - synchronous optical network (SONET) (DNU-S) can be listed by specifying the virtual tributary level 1 facility (VT1FAC). Ports that use the radio port controller units (RPCU) can be listed by specifying the RPCU. All switched virtual circuit (SVC) ports on a frame relay bearer channel (FRBC) can be listed by specifying the FRBC group and member. Any port type on a peripheral control and timing line and trunk unit (PLTU) facility can be listed by specifying the PLTU facility number. Any port type on a optical interface unit (OIU) facility can be listed by specifying the OIU facility number. Not all in-service trunks, lines, data links, or OSPSPORTs in either the entire office or a specified switching module (SM) can be listed. A subset can be listed (refer to the **EXPLANATION OF MESSAGE** for details). Only one OP:LIST request can be active in the system at any moment; any additional requests will be denied.

2. FORMAT

```
OP:LIST,a[,FULL|,SUM][,SM=b][:c][,d][,e][,f][,g];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`FULL` = Use the primary and pending statuses for match and print in the output list. When FULL is not specified (default), only the primary status is used to match and only the primary status is printed on the output list. FULL and SUM may not be specified together. SUM only allows for a summary on one status.

`PRIGRP` = Primary rate interface (PRI) group. If this specifier is entered by itself, all OOS PRIGRP D-channels are printed that match the status given. This does not include OSPS PRI D-channels, since they are not assigned a PRI group number.

`SUM` = Print a summary report. This report gives only the number of ports that matched the status. (Incompatible with [,FULL]).

`a` = Unit. Valid value(s):

```
AP[=h]
AQEST
AQM[=h]
AQ[=h]
BST[=k]
DASC[=h]
DATALINKS
DFI=m-d[1]-e[1]
```

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```
DSLG=m-n
EIS[=k[1]]
FRBC=x-q[1]
HOBICR[=h]
HOBICV[=h]
HOBIS[=h]
LINES
MISLNK[=h]
MLHG=s[-t&&u]
OAPF
OAPO
OIUFAC=m-b[2]-c[2]-d[2]-e[2]-f[2]-g[2]
OPT[=k]
OSPSPORTS
PLTUFAC=m-t[1]-u[1]-v[1]
PRIGRP[=f[1]]
RAS[=h]
RPCU[=p[1]
RTRS[=h]
TG=x[-y&&z]
TRUNKS
VT1FAC=m-l[1]-m[1]-r[1]-n[1]-o[1]-s[1]
VANA=m-w[1]
VBRI=m-x[1]
VNAR=m-y[1]
VTRK=m-z[1]-a[2]
XDB[=h]
XDPF
XDPO
```

b = SM number. Restrict the output to one switching module. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

NOTE: Variables 'c' through 'g' are subfields giving the port status [default is out-of-service (OOS)] to match against the subset of trunks, lines, data links, or OSPSPORTs. If a subfield is omitted, any value for that subfield will match. Fields are always separated by a single comma, even if in-between fields are omitted (as in OOS,MAN). If a group number or group and range of members were specified and all status subfields were omitted, then all the statuses will be listed including in-service for that group or range of members.

c = Port status - basic state. Valid value(s):

IS = In service. Valid only with FRCD qualifier in specific OP:LIST subcategories. Valid value(s):

```
OP:LIST,AP
OP:LIST,DATALINKS
OP:LIST,HOBICR
OP:LIST,HOBIS
OP:LIST,LINES
OP:LIST,MISLNK
```

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OP:LIST,OAPF
OP:LIST,OAPO
OP:LIST,PRIGRP
OP:LIST,RAS
OP:LIST,TRUNKS
OP:LIST,TG

OOS = Out-of-service. Default case in specified OP:LIST subcategories. Valid value(s):

OP:LIST,AP
OP:LIST,AQEST
OP:LIST,BST
OP:LIST,DATALINKS
OP:LIST,HOBICR
OP:LIST,HOBIS
OP:LIST,LINES
OP:LIST,MISLNK
OP:LIST,OAPF
OP:LIST,OAPO
OP:LIST,OPT
OP:LIST,OSPSPORTS
OP:LIST,PRIGRP
OP:LIST,RAS
OP:LIST,TG
OP:LIST,TRUNKS
OP:LIST,XDPF
OP:LIST,XDPO

d = Port status - qualifier. Valid value(s):
- BLKD = Blocked.
- CADN = Circuit administration.
- CUTOVER = Cutover (pre-cut) inactive state.
- DSLINIT = Digital subscriber line (DSL) initialization.
- FRCD = Forced.
- MKBUSY = Make busy.
- MTCE = Maintenance.
- PPSRV = Pre/post service.
- STBY = Standby.
- TMT = Traffic management.
- WAIT = Waiting for acknowledgement.

e = Port status - operational restrictions. Valid value(s):
- BCOOS = Bearer channel is out-of-service.
- BCMOOS = Bearer channel member is out-of-service.
- BUSY = Forced busy by switch.
- CCSINIT = common channel signaling (CCS) initialization.
- CONT = Continuity test failure (CCS only).
- DCHOOS = D-channel is out-of-service.
- DS0_OOS = ISLP member trunk is out-of-service.

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DSBLD = Disabled.
FAF = Facility failure.
FE = Family of equipment.
HW = High and wet.
LKDO = Locked out.
LVL1ERR = Level 1 error.
LVL2ERR = Level 2 error.
LVL3ERR = Level 3 error.
PLGUP = Plug-up.
PPMOOS = Packet pipe member trunk is out-of-service.
PX = Power cross.
RAP = Recorded announcement port.

f = Port status - supplementary information. Valid value(s):
AFAF = Associate facility failure.
AML = Automatic maintenance limit.
AQ = Autoquote problem.
AUDIT = Audit detected problem.
CAMA = Centralized automatic message accounting.
CAROT = Centralized automatic reporting on trunks.
CDI = Control and data interface.
CKT = General circuit.
CTTU = Central trunk testing unit.
DLNORSP = INITIAL response not received over DSL data link.
DM_RECD = Received a level 2 disconnect message frame from far end.
DS1OOS = Digital signal level 1 is out-of-service.
DYGSPUS = Dying gasp under study.
ERATC = Trunk error analysis test call failure.
ERATP = Trunk error analysis all tests passed.
FORPOT = Foreign potential.
GRD = Ground fault.
GRID = Line unit grid bad.
IAA = Ineffective attempt analysis.
INC = Incoming end. When used with the continuity status [OOS, maintenance (MTCE), CONT], it means that this CCS trunk is involved in automatic continuity retesting that is being controlled by the far end office.
ISLU = Integrated services line unit.
INIT = Initialization.
L2DOWN = For a packet-switched line, level 2 protocol in not established.
L2QLTY = Poor level 2 transmission quality. The line/trunk had too many level 2 protocol errors.
LINK1 = The basic rate interface transmission extension (BRITE) link one is down.
LINK2 = The BRITE link two is down.
LINK3 = The BRITE link three is down.
LINK4 = The BRITE link four is down.
LINK5 = The BRITE link five is down.
LINK6 = The BRITE link six is down.
MPP = Modem pool problem.
MSMTCH = Mismatch.

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MTCECH	= Maintenance channel.
NO_RESP	= No response from far end during an attempted level 2 communication establishment.
NR	= No response.
NRT	= No response while in test mode.
NTDACT	= Network termination (NT) is deactivated.
NTOFN	= NT off normal.
NTPPWR	= NT primary power is lost.
NTPWR	= NT lost power.
NTSPWR	= NT secondary power is lost.
ODD	= Office dependent data.
OTG	= Outgoing end. When used with the continuity status (OOS, MTCE, CONT), it means that this CCS trunk is the end controlling the automatic continuity retesting.
OPNOXL3	= Switch could not activate level 3 protocol.
PCTF	= Per call test failure.
POSNOB	= OSPS position no B-channel. Could not activate B-channel (voice) port of DSL.
POSNRSP	= OSPS position failed to send initial response.
PPM	= Periodic pulse metering unit.
PROV	= Lines that have not yet been provisioned.
PSU	= Packet switch unit.
RDTA	= Remote digital test access.
RESTART	= Q.931 restart message.
REX	= Routine exercise.
RO	= Routine/other.
ROTF	= Routine operational test failure (such as, scanner stuck off-hook).
RSMMSA	= Remote switching module (RSM) in module stand-alone mode (MSA) of operation.
RT	= OOS in the RT.
RTTF	= Routine transmission test failure.
SCC	= Removed by Switching Control Center.
SERVICE	= Q.931 service message.
SPARED	= Line is involved in an ISLU sparing configuration.
STKSCN	= Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).
SWEQF	= Switch equipment failure.
TEST	= In test mode.
TEST1	= Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.
TEST2	= Testing in progress at the NT or BRITE CU and the BRITE link two is down.
TEST3	= Testing in progress at the NT or BRITE CU and the BRITE link three is down.
TEST4	= Testing in progress at the NT or BRITE CU and the BRITE link four is down.
TEST5	= Testing in progress at the NT or BRITE CU and the BRITE link five is down.
TEST6	= Testing in progress at the NT or BRITE CU and the BRITE link six is down.
TICOM	= Treated interface unit common circuit.
TINTF	= The T interface is down.
TRBL	= Unspecified trouble.
TRBLORG	= Origination trouble (for example, showering line).

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TREQF = Transmission equipment failure.
TRKBD = Trunk board.
TRKCT = Trunk circuit.
UINTF = The *ANSI*® standard U-interface is down.

g = Port status- mode. Valid value(s):
AUTO = Automatic.
MAN = Manual.

h = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Packet switch unit (PSU) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = The lower limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = The upper limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Trunk group or Bearer Independent Call Control (BICC) group number against which to generate the list. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = The lower limit of a range of trunk group member numbers or normalized Call Instance Codes (CICs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = The upper limit of a range of trunk group member numbers or normalized CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = PRI group number. If a number is specified, all the D- and B-channels in the PRI group are output that match the status given. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`k`[1] = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = RPCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the

`x`[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the

`y`[1] = Virtual network announcement resource number. Refer to the APP:RANGES appendix in the Appendixes section of the

`z`[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the

`a`[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the

`b`[2] = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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c[2] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[2] = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[2] = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[2] = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[2] = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and is followed by OP:LIST-DATA, OP:LIST-DATALIN, OP:LIST-LINES, OP:LIST-OSPSPOR, OP:LIST-REPORT, OP:LIST-SUM or the OP:LIST-TRUNK output message. When the request is entered from the master control center (MCC), the output will also be directed to the ROP.

RL = Retry later. The request has been denied, most probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:STATUS
STP:LIST
```

Output Message(s):

```
OP:LIST-DATA
OP:LIST-DATALIN
OP:LIST-LINES
OP:LIST-OSPSPOR
OP:LIST-REPORT
OP:LIST-SUM
OP:LIST-TRUNK
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:PORT-STATUS
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-900-341 *National ISDN Basic Rate Interface Specification*
250-500-100 *OSPS General Description*

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OP:LIST-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request.

Any port type that uses the digital facility interface (DFI) can be listed by specifying the DFI. Any port type that uses the digital network unit - synchronous optical network (SONET) (DNU-S) can be listed by specifying the virtual tributary level 1 facility (VT1FAC). Ports that use the radio port controller units (RPCU) can be listed by specifying the RPCU. All switched virtual circuit (SVC) ports on a frame relay bearer channel (FRBC) can be listed by specifying the FRBC group and member. Any port type on a peripheral control and timing line and trunk unit (PLTU) facility can be listed by specifying the PLTU facility number. Any port type on a optical interface unit (OIU) facility can be listed by specifying the OIU facility number. Not all in-service trunks, lines, data links, or OSPSPORTs in either the entire office or a specified switching module (SM) can be listed. A subset can be listed (refer to the **EXPLANATION OF MESSAGE** for details). Only one OP:LIST request can be active in the system at any moment; any additional requests will be denied.

2. FORMAT

```
OP:LIST,a[,FULL|,SUM][,SM=b][:c][,d][,e][,f][,g];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`FULL` = Use the primary and pending statuses for match and print in the output list. When FULL is not specified (default), only the primary status is used to match and only the primary status is printed on the output list. FULL and SUM may not be specified together. SUM only allows for a summary on one status.

`PRIGRP` = Primary rate interface (PRI) group. If this specifier is entered by itself, all OOS PRIGRP D-channels are printed that match the status given. This does not include OSPS PRI D-channels, since they are not assigned a PRI group number.

`SUM` = Print a summary report. This report gives only the number of ports that matched the status. (Incompatible with [,FULL]).

`a` = Unit. Valid value(s):

```
AP[=h]
AQEST
AQM[=h]
AQ[=h]
BST[=k]
DASC[=h]
DATALINKS
```

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```
DFI=m-d[1]-e[1]
DSLG=m-h[2]-n
EIS[=k[1]]
FRBC=x-q[1]
HOBICR[=h]
HOBICV[=h]
HOBIS[=h]
LINES
MISLNK[=h]
MLHG=s[-t&&u]
OAPF
OAPO
OIUFAC=m-b[2]-c[2]-d[2]-e[2]-o[1]-s[1]
OPT[=k]
OSPSPORTS
PLTUFAC=m-t[1]-u[1]-v[1]
PRIGRP[=f[1]]
RAS[=h]
RPCU[=p[1]
RTRS[=h]
SDLS
TG=x[-y&&z]
TRUNKS
VT1FAC=m-l[1]-m[1]-r[1]-n[1]-o[1]-s[1]
XDB[=h]
XDPF
XDPO
```

b = SM number. Restrict the output to one switching module. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

Variables 'c' through 'g' are subfields giving the port status [default is out-of-service (OOS)] to match against the subset of trunks, lines, data links, or OSPSPORTs. If a subfield is omitted, any value for that subfield will match. Fields are always separated by a single comma, even if in-between fields are omitted (as in OOS,MAN). If a group number or group and range of members were specified and all status subfields were omitted, then all the statuses will be listed including in-service for that group or range of members.

c = Port status - basic state. Valid value(s):

IS = In-service. If 'd' = FRCD, then 'a' must be"

AP

DATALINKS

HOBICR

HOBIS

LINES

MISLNK

OAPF

OAPO

PRIGRP

RAS

TRUNKS

TG

OOS = Out-of-service. This can only be applied if 'a' is:

AP

AQEST

BST

DATALINKS

HOBICR

HOBIS

LINES

MISLNK

OAPF

OAPO

OPT

OSPSPORTS

PRIGRP

RAS

SDLS

TG

TRUNKS

XDPF

XDPO

d = Port status - qualifier. Valid value(s):

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BLKD = Blocked.
CADN = Circuit administration.
CUTOVER = Cutover (pre-cut) inactive state.
DSLINIT = Digital subscriber line (DSL) initialization.
FRCD = Forced.
MKBUSY = Make busy.
MTCE = Maintenance.
PPSRV = Pre/post service.
STBY = Standby.
TMT = Traffic management.
WAIT = Waiting for acknowledgement.

e = Port status - operational restrictions. Valid value(s):
BCOOS = Bearer channel is out-of-service.
BCMOOS = Bearer channel member is out-of-service.
BUSY = Forced busy by switch.
CCSINIT = common channel signaling (CCS) initialization.
CONT = Continuity test failure (CCS only).
DCHOOS = D-channel is out-of-service.
DS0_OOS = ISLP member trunk is out-of-service.
DSBLD = Disabled.
FAF = Facility failure.
FE = Family of equipment.
HW = High and wet.
LKDO = Locked out.
LVL1ERR = Level 1 error.
LVL2ERR = Level 2 error.
LVL3ERR = Level 3 error.
PLGUP = Plug-up.
PPMOOS = Packet pipe member trunk is out-of-service.
PX = Power cross.
RAP = Recorded announcement port.

f = Port status - supplementary information. Valid value(s):
AFAF = Associate facility failure.
AML = Automatic maintenance limit.
AQ = Autoquote problem.
AUDIT = Audit detected problem.
CAMA = Centralized automatic message accounting.
CAROT = Centralized automatic reporting on trunks.
CDI = Control and data interface.
CKT = General circuit.
CTTU = Central trunk testing unit.
DLNORSP = INITIAL response not received over DSL data link.
DM_RECD = Received a level 2 disconnect message frame from far end.
DS1OOS = Digital signal level 1 is out-of-service.
DYGSPUS = Dying gasp under study.
ERATC = Trunk error analysis test call failure.

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ERATP	= Trunk error analysis all tests passed.
FORPOT	= Foreign potential.
GRD	= Ground fault.
GRID	= Line unit grid bad.
IAA	= Ineffective attempt analysis.
INC	= Incoming end. When used with the continuity status [OOS, maintenance (MTCE), CONT], it means that this CCS trunk is involved in automatic continuity retesting that is being controlled by the far end office.
ISLU	= Integrated services line unit.
INIT	= Initialization.
L2DOWN	= For a packet-switched line, level 2 protocol in not established.
L2QLTY	= Poor level 2 transmission quality. The line/trunk had too many level 2 protocol errors.
LINK1	= The basic rate interface transmission extension (BRITE) link one is down.
LINK2	= The BRITE link two is down.
LINK3	= The BRITE link three is down.
LINK4	= The BRITE link four is down.
LINK5	= The BRITE link five is down.
LINK6	= The BRITE link six is down.
MPP	= Modem pool problem.
MSMTCH	= Mismatch.
MTCECH	= Maintenance channel.
NO_RESP	= No response from far end during an attempted level 2 communication establishment.
NR	= No response.
NRT	= No response while in test mode.
NTDACT	= Network termination (NT) is deactivated.
NTOFN	= NT off normal.
NTPPWR	= NT primary power is lost.
NTPWR	= NT lost power.
NTSPWR	= NT secondary power is lost.
ODD	= Office dependent data.
OTG	= Outgoing end. When used with the continuity status (OOS, MTCE, CONT), it means that this CCS trunk is the end controlling the automatic continuity retesting.
OPNOXL3	= Switch could not activate level 3 protocol.
PCTF	= Per call test failure.
POSNOB	= OSPS position no B-channel. Could not activate B-channel (voice) port of DSL.
POSNRSP	= OSPS position failed to send initial response.
PPM	= Periodic pulse metering unit.
PROV	= Lines that have not yet been provisioned.
PSU	= Packet switch unit.
RDTA	= Remote digital test access.
RESTART	= Q.931 restart message.
REX	= Routine exercise.
RO	= Routine/other.
ROTF	= Routine operational test failure (such as, scanner stuck off-hook).
RSMMSA	= Remote switching module (RSM) in module stand-alone mode (MSA) of operation.

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RT = OOS in the RT.
RTTF = Routine transmission test failure.
SCC = Removed by Switching Control Center.
SERVICE = Q.931 service message.
SPARED = Line is involved in an ISLU sparing configuration.
STKSCN = Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).
SWEQF = Switch equipment failure.
TEST = In test mode.
TEST1 = Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.
TEST2 = Testing in progress at the NT or BRITE CU and the BRITE link two is down.
TEST3 = Testing in progress at the NT or BRITE CU and the BRITE link three is down.
TEST4 = Testing in progress at the NT or BRITE CU and the BRITE link four is down.
TEST5 = Testing in progress at the NT or BRITE CU and the BRITE link five is down.
TEST6 = Testing in progress at the NT or BRITE CU and the BRITE link six is down.
TICOM = Treated interface unit common circuit.
TINTF = The T interface is down.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble (for example, showering line).
TREQF = Transmission equipment failure.
TRKBD = Trunk board.
TRKCT = Trunk circuit.
TSILP = TSI loopback termination.
UINTF = The *ANSI*® standard U-interface is down.

g = Port status- mode. Valid value(s):
AUTO = Automatic.
MAN = Manual.

h = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Packet switch unit (PSU) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = The lower limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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u = The upper limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Trunk group or bearer independent call control (BICC) group number against which to generate the list. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = The lower limit of a range of trunk group member numbers or normalized call instance codes (CICs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = The upper limit of a range of trunk group member numbers or normalized CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = PRI group number. If a number is specified, all the D- and B-channels in the PRI group are output that match the status given. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[1] = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[1] = RPCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[1] = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[1] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[1] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`u`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Virtual network announcement resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and is followed by OP:LIST-DATA, OP:LIST-DATALIN, OP:LIST-LINES, OP:LIST-OSPSPOR, OP:LIST-REPORT, OP:LIST-SUM or the OP:LIST-TRUNK output message. When the request is entered from the master control center (MCC), the output will also be directed to the ROP.

`RL` = Retry later. The request has been denied, most probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:STATUS
STP:LIST
```

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Output Message(s):

```
OP:LIST-DATA
OP:LIST-DATALIN
OP:LIST-LINES
OP:LIST-OSPSPOR
OP:LIST-REPORT
OP:LIST-SUM
OP:LIST-TRUNK
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:PORT-STATUS
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-900-341 *National ISDN Basic Rate Interface Specification*
250-500-100 *OSPS General Description*

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OP:LIST-FLOWACT

Software Release: 5E17(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a list of all active performance monitoring (PM) sessions established internally or externally. Internal PM sessions are PM sessions established by the host switch. External PM sessions are PM sessions established either by another switch, by the same switch using an intra-switching module (SM) and inter-packet switch unit (PSU) connection (when dual PSUs exist), or by the same switch using an inter-SM connection.

A PSU asynchronous transfer mode (ATM) link (PSALNK) provides the ability to interconnect the local PSU with multiple other PSUs in the ATM network, as designated by their community address and subnetwork identifiers. Each of these PSU-to-PSU connections can be monitored internally for performance-impacting metrics in accordance to the GR-1248 ATM standards and included in the relevant switch measurement reports for output. Similarly, the far endpoint of each PSU-to-PSU connection can request that the identical virtual circuit be monitored for data collection.

The purpose of this input message is to request a list of active PM activity initiated by near or far endpoints. The input message ALW:PM allows internal PM sessions and the input message ALW:EXTPM allows external PM sessions. The corresponding INH:PM and INH:EXTPM input messages provide a means of disabling internal and external PM activity respectively.

Any single ATM virtual circuit may be tracked for performance activity by both the host *5ESS®* switch and a remote endpoint simultaneously. Such a PM session has both internal and external properties. When both endpoints have identical connection types [for example, both are virtual path connections (VPC) or both are virtual channel connections (VCC)], this PM session is referred to as a shared flow.

If the PSALNK option is included, only PM sessions on the specified PSALNK will be affected by the input message. If the ALL option is included, all PSALNKs in the office will be affected by the input message.

PM is only supported over a virtual circuit terminated locally by a PSALNK hosted on a protocol handler for ATM version 2 (PHA2).

2. FORMAT

```
OP:LIST,FLOWACT,{ALL|PSALNK=a-b-c};
```

3. EXPLANATION OF MESSAGE

`a` = SM number of the target PSALNK.

`b` = PSU number of the target PSALNK.

`c` = Link number of the target PSALNK.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more OP:LIST-FLOWACT output messages.

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NG = No good. May also include:
- NO PHA2 PSALNK EQUIPPED = The request has been denied. The message is valid but no PSALNKs within the scope of the input message were detected in the current equipage.
- PSALNK UNEQUIPPED = The request has been denied. The message is valid but the specified PSALNK was not detected in the current equipage.
- MUST BE A PHA2 PSALNK = The request has been denied. The message is valid but the specified PSALNK is not hosted by a PHA2.
- DATABASE ERROR = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- INTERNAL CORRUPTION = The request has been denied. The message is valid but an internal data corruption error has prevented any action from being taken.
- AM TIMER NOT STARTED = The request has been denied. The message is valid but a shortage of system resources has prevented any action from being taken.

RL = Retry later. May also include:
- PREVIOUS REQUEST IN PROGRESS The request has been denied. The message is valid but the previous request must complete before a new request can be made.

5. REFERENCES

Input Message(s):

```
ALW:EXTPM
ALW:PM
INH:EXTPM
INH:PM
```

Output Message(s):

```
ALW:EXTPM
ALW:PM
INH:EXTPM
INH:PM
OP:LIST-FLOWACT
```

Input Appendix(es):

```
APP:RANGES
```

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OP:LIST-ISMNAIL-A

Software Release: 5E15 only
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Outputs a status list of all inter-SM (switching module) nailups (ISMNAIL) used for packet transport between two SMs. Variants are permitted to obtain the primary status of all nailups emanating from a specific SM or channel group (Format 1), or the primary/history states of all nailups between a designated pair of SMs (Format 2). Also available are "state filtering options" to output only selected classes of output status.

2. FORMAT

```
[1]    OP:LIST,ISMNAIL,SM=a[,CHNG=b][,ALL|IS|OOS];

[2]    OP:LIST,ISMNAIL,SM=c,MATESM=d[,ALL|IS|OOS];
```

3. EXPLANATION OF MESSAGE

`ALL` = This option allows output for all ISMNAILs to be produced, regardless of status.

`IS` = This option allows only output for operational in-service (IS) or automatic time slot switching (IS-AUTISS) ISMNAILs to be reported.

`OOS` = This option allows only output for out-of-service (OOS) ISMNAILs to be reported. This is the default, if no option is specified.

`a` = SM number from which status of ISMNAILs are desired.

`b` = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If this option is included, only the primary status of ISMNAILS associated with the specified CHNG are provided. Without this option, all ISMNAILs on the specified source SM will be considered.

`c` = SM number from which primary and history status of ISMNAILs between a pair of SMs is desired.

`d` = Mate SM number is the other SM of interest.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `SM ## NOT IN THE ISM NETWORK` = The request has been denied. Either the source or the destination SM or both have no ISMNAILS associated with it.

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PF = Printout follows. The request has been accepted and is followed by the OP:LIST-ISMNAIL output message.

RL = Retry later. The request cannot be executed immediately because the automatic task administrator (ATA) cannot currently schedule a new task, or another OP:LIST-ISMNAIL or OP:OFFNORM-IS request is in progress (no more than one task of this type may be executed at any given time); retry later, when system load is reduced.

5. REFERENCES

Input Message(s):

```
STP:ISMNAIL
```

Output Message(s):

```
OP:LIST-ISMNAIL
OP:OFFNORM-IS
```

Input Appendix(es):

```
APP:RANGES
```

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OP:LIST-ISMNAIL-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Outputs a status list of all inter-SM (switching module) nailups (ISMNAIL) used for packet transport between two SMs. Variants are permitted to obtain the primary status of all nailups emanating from a specific SM or channel group (Format 1), or the primary/history states of all nailups between a designated pair of SMs (Format 2). Also available are "state filtering options" to output only selected classes of output status.

2. FORMAT

```
[1]    OP:LIST,ISMNAIL,SM=a[,CHNG=b-c][,ALL|IS|OOS];

[2]    OP:LIST,ISMNAIL,SM=d,MATESM=e[,ALL|IS|OOS];
```

3. EXPLANATION OF MESSAGE

`ALL` = This option allows output for all ISMNAILs to be produced, regardless of status.

`IS` = This option allows only output for operational in-service (IS) or automatic time slot switching (IS-AUTISS) ISMNAILs to be reported.

`OOS` = This option allows only output for out-of-service (OOS) ISMNAILs to be reported. This is the default, if no option is specified.

`a` = SM number from which status of ISMNAILs are desired.

`b` = PSU Number

`c` = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If this option is included, only the primary status of ISMNAILS associated with the specified CHNG are provided. Without this option, all ISMNAILs on the specified source SM will be considered.

`d` = SM number from which primary and history status of ISMNAILs between a pair of SMs is desired.

`e` = Mate SM number is the other SM of interest.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `SM ## NOT IN THE ISM NETWORK` = The request has been denied. Either the source or the destination SM or both have no ISMNAILS associated with it.

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PF = Printout follows. The request has been accepted and is followed by the OP:LIST-ISMNAIL output message.

RL = Retry later. The request cannot be executed immediately because the automatic task administrator (ATA) cannot currently schedule a new task, or another OP:LIST-ISMNAIL or OP:OFFNORM-IS request is in progress (no more than one task of this type may be executed at any given time); retry later, when system load is reduced.

5. REFERENCES

Input Message(s):

```
STP:ISMNAIL
```

Output Message(s):

```
OP:LIST-ISMNAIL
OP:OFFNORM-IS
```

Input Appendix(es):

```
APP:RANGES
```

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OP:LISTOTO

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a listing of the unassigned (UNA) lines, the integrated *SLC®* (ISLC) lines, and/or the integrated digital carrier unit (IDCU) lines within a specified range of directory numbers, *SLC®* line equipment numbers (SLENs), or IDCU line equipment numbers (ILENs). This message is used to obtain a listing of these lines before an office-to-office test program (EX:OTO) is exercised.

If the UNA, ISLC, and IDCU options are all omitted from the input message, a line report will be printed for every line within the range to allow verification of the *5ESS®* switch translations with office records.

Note: To reduce the possibility of loss of results due to message throttling, the OP:LISTOTO input message should be run at periods of low activity. In addition, refer to the INH:BREVC input message.

2. FORMAT

```
OP:LISTOTO[,UNA][,ISLC][,IDCU][,NPA=r],i;
```

3. EXPLANATION OF MESSAGE

`a` = Three-digit office code.

`b` = Local digits of the first or only line of the range.

`c` = Local digits of the last line of the range.

`d` = Switching module (SM) number.

`e` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = First or only RT line number of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Last RT line number of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Equipment number. Valid value(s):

```
DN=a-b[&&c]
 ILEN=d-j-k-l[&&m]
 INEN=d-n-o-p-q[&&h]
```

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```
SLEN=d-e-f-g[&&h]
```

j = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = First or only RT line number or PUB43801 channel of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Last RT line number or PUB43801 channel of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital network unit (DNU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = First or only RT line number of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Last RT line number of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Numbering Plan Area or Area Code of the DN.

4. SYSTEM RESPONSE

PF = Printout follows. The message has been accepted and is followed by the OP:LISTOTO output message.

RL = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
EX:OTO
INH:BREVC
STP:LISTOTO
```

Output Message(s):

```
OP:LISTOTO
```

Other Manual(s):
235-105-200 *Precutover and Cutover Procedures*

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OP:LIT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Reports the progress of automatic line insulation testing (ALIT), showing the ALIT testing status for each modular metallic service unit (MMSU) in the office.

2. FORMAT

```
OP:LIT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized.

`PF` = Printout follows. Followed by the OP:LIT output message.

`RL` = Retry later. May also include:

`AM IN MIN MODE` = The message was denied because the administrative module is in minimum (min) mode. Input the message again after the AM has been reinitialized to exit min mode.

`OPLIT ACTIVE` = The message was denied because another OP:LIT message is currently active.

`RESOURCE SHORTAGE` = The request has been denied because of a resource shortage.

`SYSTEM PROBLEM` = The request has been denied because of system problem other than a resource shortage.

5. REFERENCES

Output Message(s):

`OP:LIT`

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OP:LNSTAT

Software Release: 5E15 and later
Command Group: N/A
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that a snapshot of certain key link node (link interface and node processor) status and data information be output. The requested data to be output is described in the OP:LNSTAT output manual page. The requested data is intended to aid in troubleshooting and analyzing link node problems. This input message is valid only for Signaling System 7 (SS7) links.

2. FORMAT

```
OP:LNSTAT=a-b[:DEST=c];
```

3. EXPLANATION OF MESSAGE

`a` = Link group number.

`b` = Link member number.

`c` = Destination class. The destination number to output device cross reference can be found by using the OP:OUTCLS input message.

4. SYSTEM RESPONSE

`NG` = No good. The request was not accepted, reason to follow.

`PF` = Printout follows. Followed by the OP:LNSTAT output message.

`RL` = Retry later. The OP:LNSTAT cannot execute at this time, reason to follow.

5. REFERENCES

Input Message(s):

`OP:OUTCLS`

Output Message(s):

`OP:LNSTAT`

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OP:LNUPD

Software Release: 5E15 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Generates a printout of the status for the last LNUPD:LN input message request. Used to get the status of the SS7 node(s) software update process.

2. FORMAT

```
OP:LNUPD:[DEST=a];
```

3. EXPLANATION OF MESSAGE

a = The specified destination output class. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Input message acknowledgements:

IP = Followed by the OP LNUPD output message.

RL = Request cannot be executed now due to unavailable system resources.

?A = Action field contains an error.

?D = Data Field contains an error.

?I = Identification Field contains an error.

5. REFERENCES

Input Message(s):

```
LNUPD:LN
STOP:LNUPD
```

Output Message(s):

```
LNUPD:LN
OP:LNUPD
REPT:LNUPD LN
STOP:LNUPD
```

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OP:LOG

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that selected contents of a logfile be printed (output). If the logfile is the only criterion entered, the first 200 entries of the logfile are printed. Otherwise, only the entries in the logfile that meet all of the selection criteria are printed. Unless the LIMIT option is specified as one of the criteria, the first 200 entries that match all the selection criteria are printed.

The entire output report is always routed to the read-only printer (ROP). The amount of data output routed to the terminal is determined by the input message line options selected and the size of the data output. When the "CLASS" option is set to "T," the entire output report is routed to the terminal as well as the ROP. When the "CLASS" option is set to "R," the entire output report is routed to the ROP, and only the COMPLETED message is routed to the terminal.

Note: The COMPLETED message also contains the last non-full segment, if it exists, of the output report. If the data output fills 'n' complete segments (where 'n' is an integer greater than or equal to 1) then the COMPLETED message (and no output data) is printed at the terminal.

When the "DEVICE" option is set to a valid device, the entire output report is routed to the specified device as well as the ROP with nothing being output to the terminal.

There are two formats, depending on the way the starting and ending dates and times are specified.

The DATE, TIME, ID, MSGCLS and TYPE options are matched with information contained in the user control string which the spooler adds as a prefix to each message before storing it in the logfile. The user control string is not part of the OP:LOG output. The keyword (KW) option matches on the text of each message.

2. FORMAT

```
[1]    OP:LOG:LG="a"[:[,DATE=b[&&c]][,TIME=d[&&e]][,KW="f"][,ID=g]
       [,MSGCLS=l|,TYPE=h][,LIMIT=i][,CLASS=j|,DEVICE="k"]];

[2]    OP:LOG:LG="a"[:[,DATE=m[&&n]][,KW="f"][,ID=g]
       [,MSGCLS=l|,TYPE=h][,LIMIT=i][,CLASS=j|,DEVICE="k"]];
```

3. EXPLANATION OF MESSAGE

`a` = Name of the logfile. Any valid administrative module (AM) logfile name. The current logfile names are:

```
AMAERLOG
AUDLOG
AMTRCLOG
CMDLOG
CMONLOG
CNCELOG
CONFLOG
```

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```
DAYLOG
DKDRVLOG
ECDLOG
ERLOG
GSPL
IODRVLOG
MEMLOG
MTCLOG
OFRLOG
OLBLOG
PMLOG
RPTERR
SGLOG
SIMLOG
SPLLOG
TRACELOG
ULARPLOG
DEBUGLOG
ERRORLOG
PERFLOG
```

Most logfile names can be found in the APP:MSGCLS appendix in the Appendixes section of the Output Messages manual.

`b` = Start date, given as a 6-digit number in the form mmddyy.

`c` = End date, given as a 6-digit number in the form mmddyy. Default is start date.

`d` = Start time, given as a 4-digit number in the form hhmm.

`e` = End time, given as a 4-digit number in the form hhmm. Default = start time.

`f` = A keyword that appears in all entries that are to be reported.

`g` = Four-digit decimal number which is used to link an item in a logfile with an entry in another file. The ID is filled in by the process that made the logfile entry: for example, 1234, 0017, 0003.

`h` = Four-digit decimal number that specifies the type of entry in a logfile. The TYPE is filled in by the process which made the logfile entry; for example, 1234, 0945, 0005.

`i` = The maximum number of output entries requested. Default = 200. OP:LOG will report output complete if this limit is reached.

`j` = Location to which output should be routed. Valid value(s):

`R` = Receive-only printer (default).

`T` = Terminal and read-only printer.

`k` = A specific device to which output should be routed. This device should not be a logfile device. For example, "ttyc" will direct the output to /dev/ttyc.

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`l` = A message class name (1-9 characters). This name is encoded in the user control string as a four-digit decimal number.

`m` = Start date and time, given as a 10-digit number in the form mmddyyhhmm. For example, October 2 1987 at 10:00 PM is given as 1002872200.

`n` = End date and time, given as a 10-digit number in the form mmddyyhhmm. Default = start date and time.

4. SYSTEM RESPONSE

`IP` = In progress.

`RL` = Retry later. Valid value(s):
- `CANNOT ATTACH TO ECD` = Could not attach to the equipment configuration database (ECD).

5. REFERENCES

Input Message(s):

```
DEL:LOG
```

Output Message(s):

```
DEL:LOG
OP:LOG
```

Output Appendix(es):

```
APP:MSGCLS
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-250 *System Recovery Procedures*
235-600-400 *Audits*

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OP:LPS

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests the current and backup log/print status (LPS).

Format 1 requests the status of one or all message classes. Format 2 requests all message classes for which the current status matches the entered status.

2. FORMAT

```
[1]    OP:LPS,MSGCLS={a|ALL};

[2]    OP:LPS[,LOG=b][,PRINT=c];
```

3. EXPLANATION OF MESSAGE

`ALL` = Print statuses of all message classes.

`a` = Valid message class.
Note: The default for variables '`b`' and '`c`' is to print all statuses of all message classes.

`b` = Daylog routing status (ON or OFF).

`c` = Equipment configuration data base (ECD) routing status (ON or OFF).

4. SYSTEM RESPONSE

`NG` = No good. There was no message class with current status matching the entered status.

`PF` = Printout follows.

`RL` = Retry later. The disk file which contains the tables cannot be found. A new file will be created, and the OP:LPS output message will be generated automatically. Retry after the new file is created.

5. REFERENCES

Input Message(s):

```
CHG:LPS-MSGCLS
OP:LOG
```

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Output Message(s):

```
OP:LPS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-100-125 *System Description*
235-600-30x *ECD/SG Data Base*

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50. OP:M

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OP:M5-A

Software Release: 5E15 only
Command Group: NMOC
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a specified package from the five-minute (M5) surveillance data.

Note: For offices that have a direct link to the remote network management center, the network management (NM) trunk group schedule can be as large as 2000. Requesting the TGMEAS package may cause a large amount of data to be printed on the read-only printer (ROP).

WARNING: To accommodate up to 2000 trunk groups, more than 100 messages will be printed on the ROP.

For the TGMEAS and TGFLAG packages, the printing of the reports can be stopped with the use of the STP:NMOP input message. Specifying the "TG=" parameter in the input message will print the report for a specific trunk group.

2. FORMAT

```
OP:M5,PKG=a[,TG=b][,NODES=c-d];
```

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):

- ASPTF = Advanced services platform toll free counts.
- BICCMEAS = Bearer independent call control measurements.
- BNP = Basic number portability measurements.
- CCS = Common channel signaling general service measurements.
- CCSP = Common channel signaling special service measurements.
- CGAP = Code control.
- CLCT = Network management control counts.
- CLDIR = Call direction.
- DLYR = Delayed readiness.
- EON5 = End office nodal phase 5.
- GETSHPC = Government emergency telecommunications service high probability of call completion.
- HPCBICC = High probability of call completion BICC group.
- HPCTG = High probability of call completion trunk group.
- IECSST = Inter-exchange carrier start signal timeout counts.
- IECSTG = Inter-exchange carrier shared trunk group counts.
- IMA = Additional ineffective machine attempts.
- LN = Leased network action point.
- LNCU = Leased network office-wide measurements for critical users.

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LNNODE = Leased network node-to-node measurements.
MLNC = Failure to match and no circuit.
NS = Number services.
OVRLD = Overload or congestion.
RRC = Manual reroute trunk group controls.
SDN = Software-defined network.
SVC = Critical service circuits.
TGFLAG = Trunk group flags.
TGMEAS = Basic trunk group.
WBTGMEAS = Wideband trunk group.

b = Trunk group number. This parameter is only specified with the TGMEAS or TGFLAG packages. For the TGMEAS package, this trunk group must be on the NM trunk group schedule. The default is all trunk groups on the NM trunk group schedule. If the trunk group is not on the NM trunk group schedule, use the ASGN:NMSCH input message to assign it. For the TGFLAG package, this trunk group does not have to be on the NM trunk group schedule.

c = CLLI code.

d = Voice/data indicator. Valid value(s):
D = Data indicator.
V = Voice indicator.

Note: The parameters 'c' and 'd' indicate a node and are only specified with the LNNODE package. The default is all nodes on the NM node schedule. If the node requested is not on the NM node schedule, use the ASGN:NMNODES input message to assign it.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA NOT COLLECTED = The request has been denied. The trunk group or node requested has been scheduled, but the data has not yet been collected.
- FEATURE NOT AVAILABLE = The request has been denied. The requested feature is not available.
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
- NODE UNASSIGNED = The request has been denied. The node requested is not on the NM node schedule, and is not included in the measurement collection. Use the ASGN:NMNODES input message to add the node to the NM node schedule. Wait for the next five-minute collection period and re-enter the request.
- PACKAGE UNASSIGNED = The request has been denied. The data for the package requested is not currently being collected. Use the SET:M5 input message to add the package to the package list so data will be collected. Wait for the next five minute collection period and re-enter the request.
- TG UNASSIGNED = The request has been denied. The trunk group requested is not on the NM schedule, and is not included in the measurement collection. Use the ASGN:NMSCH input message to add the trunk group to the NM schedule.

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Wait for the next five minute collection period and re-enter the request.

PF = Printout follows. Followed by the OP:M5 output message. May also include:
- DATA SUSPECT = Measurement data may not be accurate or complete.

RL = Retry later. May also include:
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
- LOCKED OUT = Measurement data is in the process of being collected.
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:NMNODES
ASGN:NMSCH
CLR:M5
CLR:NMNODES
CLR:NMSCH
OP:M5
OP:NMNODES
OP:NMSCH
SET:M5
STP:NMOP
```

Output Message(s):

```
OP:M5-CCS
OP:M5PKG-ASPTF
OP:M5PKG-BICCME
OP:M5PKG-BNP
OP:M5PKG-CCSP
OP:M5PKG-CGAP
OP:M5PKG-CLCT
OP:M5PKG-CLDIR
OP:M5PKG-DLYR
OP:M5PKG-EON5
OP:M5PKG-GETSHP
OP:M5PKG-HPCBIC
OP:M5PKG-HPCTG
OP:M5PKG-IECSST
OP:M5PKG-IECSTG
OP:M5PKG-IMA
OP:M5PKG-LN
OP:M5PKG-LNCU
OP:M5PKG-LNNODE
OP:M5PKG-MLNC
OP:M5PKG-NS
```

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```
OP:M5PKG-OVRLD
OP:M5PKG-RRC
OP:M5PKG-SDN
OP:M5PKG-SVC
OP:M5PKG-TGFLAG
OP:M5PKG-TGMEAS
OP:M5PKG-WBTGME
```

Other Manual(s):
235-070-100 *Switch Administration Guidelines*

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OP:M5-B

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a specified package from the five-minute (M5) surveillance data.

For offices that have a direct link to the remote network management center, the network management (NM) trunk group schedule can be as large as 2000. Requesting the TGMEAS package may cause a large amount of data to be printed on the ROP.

WARNING: To accommodate up to 2000 trunk groups, more than 100 messages will be printed on the ROP.

For the TGMEAS and TGFLAG packages, the printing of the reports can be stopped with the use of the STP:NMOP input message. Specifying the "TG=" parameter in the input message will print the report for a specific trunk group.

2. FORMAT

```
OP:M5,PKG=a[,TG=b][,NODES=c-d];
```

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):

ASPTF	= Advanced services platform toll free counts.
BICCMEAS	= Bearer independent call control measurements.
BNP	= Basic number portability measurements.
CCS	= Common channel signaling general service measurements.
CCSP	= Common channel signaling special service measurements.
CGAP	= Code control.
CLCT	= Network management control counts.
CLDIR	= Call direction.
CMIX	= Call mix.
DLYR	= Delayed readiness.
EON5	= End office nodal phase 5.
GETSHPC	= Government emergency telecommunications service high probability of call completion.
HPCBICC	= High probability of call completion BICC group.
HPCTG	= High probability of call completion trunk group.
HTRDDC	= Hard to reach measurements.
ICMP	= Internet protocol/internet control message protocol (IP/ICMP) measurements.
IECSST	= Inter-exchange carrier start signal timeout counts.
IECSTG	= Inter-exchange carrier shared trunk group counts.

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IMA = Additional ineffective machine attempts.
LN = Leased network action point.
LNCU = Leased network office-wide measurements for critical users.
LNNODE = Leased network node-to-node measurements.
MLNC = Failure to match and no circuit.
NS = Number services.
OVRLD = Overload or congestion.
PKTGRP = Packet group measurements.
RRC = Manual reroute trunk group controls.
SCTP = Stream control transmission protocol measurements.
SDN = Software-defined network.
SIPT = Session initiated protocol for telephony measurements.
SL = Signaling link.
SVC = Critical service circuits.
TGFLAG = Trunk group flags.
TGMEAS = Basic trunk group.
WBTGMEAS = Wideband trunk group.

b = Trunk group number. This parameter is only specified with the TGMEAS or TGFLAG packages. For the TGMEAS package, this trunk group must be on the NM trunk group schedule. The default is all trunk groups on the NM trunk group schedule. If the trunk group is not on the NM trunk group schedule, use the ASGN:NMSCH input message to assign it. For the TGFLAG package, this trunk group does not have to be on the NM trunk group schedule.

c = CLLI code.

d = Voice/data indicator. Valid value(s):
D = Data indicator.
V = Voice indicator.

The parameters 'c' and 'd' indicate a node and are only specified with the LNNODE package. The default is all nodes on the NM node schedule. If the node requested is not on the NM node schedule, use the ASGN:NMNODES input message to assign it.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA NOT COLLECTED = The request has been denied. The trunk group or node requested has been scheduled, but the data has not yet been collected.
- FEATURE NOT AVAILABLE = The request has been denied. The requested feature is not available.
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
- NODE UNASSIGNED = The request has been denied. The node requested is not on the NM node schedule, and is not included in the measurement collection. Use the ASGN:NMNODES input message to add the node to the NM node schedule. Wait for the next five-minute collection period and re-enter the request.
- PACKAGE UNASSIGNED = The request has been denied. The data for the package

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requested is not currently being collected. Use the SET:M5 input message to add the package to the package list so data will be collected. Wait for the next five minute collection period and re-enter the request.

- TG UNASSIGNED = The request has been denied. The trunk group requested is not on the NM schedule, and is not included in the measurement collection. Use the ASGN:NMSCH input message to add the trunk group to the NM schedule. Wait for the next five minute collection period and re-enter the request.

PF = Printout follows. Followed by the OP:M5 output message.

PF = Printout follows. May also include:
- DATA SUSPECT = Measurement data may not be accurate or complete.

RL = Retry later. May also include:
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
- LOCKED OUT = Measurement data is in the process of being collected.
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:NMNODES
ASGN:NMSCH
CLR:M5
CLR:NMNODES
CLR:NMSCH
OP:M5
OP:NMNODES
OP:NMSCH
SET:M5
STP:NMOP
```

Output Message(s):

```
OP:M5-CCS
OP:M5PKG-ASPTF
OP:M5PKG-BICCME
OP:M5PKG-BNP
OP:M5PKG-CCSP
OP:M5PKG-CGAP
OP:M5PKG-CLCT
OP:M5PKG-CLDIR
OP:M5PKG-CMIX
OP:M5PKG-DLYR
OP:M5PKG-EON5
OP:M5PKG-GETSHP
OP:M5PKG-HPCBIC
```

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```
OP:M5PKG-HPCTG
OP:M5PKG-IECSST
OP:M5PKG-IECSTG
OP:M5PKG-IMA
OP:M5PKG-LN
OP:M5PKG-LNCU
OP:M5PKG-LNNODE
OP:M5PKG-MLNC
OP:M5PKG-NS
OP:M5PKG-OVRLD
OP:M5PKG-RRC
OP:M5PKG-SDN
OP:M5PKG-SL
OP:M5PKG-SVC
OP:M5PKG-TGFLAG
OP:M5PKG-TGMEAS
OP:M5PKG-WBTGME
```

Other Manual(s):
235-070-100 *Switch Administration Guidelines*

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OP:M5PKG

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests the five-minute surveillance packages (PKG) assigned for both the remote network management system (RNMS) (the primary channel) and on-site channel (the backup channel).

2. FORMAT

```
OP:M5PKG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:M5PKG output message.

5. REFERENCES

Input Message(s):

```
CLR:M5
OP:M5
SET:M5
```

Output Message(s):

```
OP:M5PKG
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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OP:MDII

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a list of all of the trunk groups and machine-detected interoffice irregularities (MDIIs) that are being suppressed by a suppression MDII.

2. FORMAT

```
OP:MDII;
```

3. EXPLANATION OF MESSAGE

No Variables.

4. SYSTEM RESPONSE

`NA` = No acknowledgement. Request has not been acknowledged. It is probable that the request has been lost.

`PF` = Printout follows. Request has been accepted and is followed by the OP:MDII output message identifying the results of the request.

5. REFERENCES

Output Message(s):

`OP:MDII`

Input Appendix(es):

`APP:RANGES`

Output Appendix(es):

`APP:MDII`

Other Manual(s):

235-070-100 *Administration and Engineering Guidelines*

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OP:MEASIC

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests the output of the list of measured carriers. There is a system imposed limit of 200 carriers for which measurements are accumulated. The output of this input message is to facilitate the management of the measured carriers.

2. FORMAT

```
OP:MEASIC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printing of the measured carrier list will follow.

5. REFERENCES

Input Message(s):

```
ALW:TRFC30
INH:TRFC30
OP:M5
OP:MEASTAT
OP:ST-TRFC30
OP:PLNT24
OP:PLNTMO
```

Output Message(s):

```
OP:MEASIC
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30
```

Input Appendix(es):

```
APP:TRFC-SECTION
```

Output Appendix(es):

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```
APP:TRFC-SECTION
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:MEASTAT-A

Software Release: 5E15 - 5E19(1)
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNTHR), traffic (TRFC15), and all sections of the traffic (TRFC30) reports.

2. FORMAT

```
OP:MEASTAT,{CLCT[,SECT=a,START=b]|PRINT};
```

3. EXPLANATION OF MESSAGE

`a` = Name of the section to be printed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for section names.

`b` = Starting component number to print from.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `DATA NOT AVAILABLE AT THIS TIME` = Report is being generated and therefore manual requests are locked out, or report has not been generated since an initialization.
- `DATA NOT COLLECTED` = Data for this section was not collected.
- `NOT ALLOWED` = Starting component number is higher than maximum available component number for this section.

`PF` = Printout follows. Followed by either OP:MEASTAT-CLCT or OP:MEASTAT-PRNT output message.

5. REFERENCES

Input Message(s):

```
ALW:DRHR
ALW:PLNTHR
ALW:TRFC15
ALW:TRFC30
INH:DRHR
INH:PLNTHR
INH:TRFC15
INH:TRFC30
```

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Output Message(s):

```
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
```

Other Manual(s):

235-070-100 *Administration and Engineering Guidelines*

OP:MEASTAT-B

Software Release: 5E20(1) and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNTHR), traffic 15 (TRFC15), and all sections of the traffic 30 (TRFC30) reports.

2. FORMAT

```
OP:MEASTAT,{CLCT[,BUF={AM|GMSM}][,SECT=a,START=b]|PRINT};
```

3. EXPLANATION OF MESSAGE

`AM` = Requests the AM TRFC30 collection buffer status. This is default parameter. If the BUF parameter is not specified, the input message defaults to the AM TRFC30 collection buffer.

`GMSM` = Requests the GMSM TRFC30 collection buffer status.

`a` = Name of the section to be printed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for section names.

`b` = Starting component number to print from.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `DATA NOT AVAILABLE AT THIS TIME` = Report is being generated and therefore manual requests are locked out, or report has not been generated since an initialization.
- `DATA NOT COLLECTED` = Data for this section was not collected.
- `NOT ALLOWED` = Starting component number is higher than maximum available component number for this section.

`PF` = Printout follows. Followed by either the OP:MEASTAT-CLCT or the OP:MEASTAT-PRNT output message.

5. REFERENCES

Input Message(s):

```
ALW:DRHR
ALW:PLNTHR
ALW:TRFC15
ALW:TRFC30
INH:DRHR
INH:PLNTHR
```

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```
INH:TRFC15
INH:TRFC30
```

Output Message(s):

```
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

OP:MEASTAT-MEM

Software Release: 5E20(1) and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Report the collection status in transient collection buffers for TRFC30 traffic data collection (TDC) sections.

2. FORMAT

```
[1]    OP:MEASTAT,MEM;
       _____________________________________________________________

[2]    OP:MEASTAT,MEM,PROC=a;
       _____________________________________________________________

[3]    OP:MEASTAT,MEM,SECT=b;
       _____________________________________________________________

[4]    OP:MEASTAT,MEM,PROC=a,SECT=b[,START=c];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = For the SM it is the SM number, otherwise, the processor identifier (default is AM when not specified). Valid value(s):
- `AM` = Administration module (AM).
- `CMP` = Communication module processor (CMP).

`b` = Name of the TRFC30 TDC section to be printed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for section names.

`c` = An identifier (number) of the first component to be reported. The default value is 1.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `CAN NOT DEREFERENCE SHARED MEMORY` = Can not dereference shared memory.
- `DATA NOT AVAILABLE AT THIS TIME` = Report is being generated and therefore manual requests are locked out, or report has not been generated since an initialization.
- `DATA NOT COLLECTED` = Data for this section was not collected.
- `SECTION IS NOT ALLOWED` = Section is not allowed.
- `START COMPONENT EXCEEDS NUMBER OF COMPONENTS` = Starting component number is higher than maximum available component number for this section.

`PF` = Printout follows. Followed by the OP:MEASTAT-MEM output message.

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5. REFERENCES

Input Message(s):

```
ALW:TRFC30
INH:TRFC30
```

Output Message(s):

```
OP:MEASTAT-MEM
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:MEMERRS

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an interpreted version of the selected MEMLOG entries be reported. The MEMLOG file entries with the specified date(s) will be output in a tabulated format.

2. FORMAT

```
OP:MEMERRS,DATE=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = Starting date in the form {yy|mmyy|mmddyy} where yy is year number, mm is month number, and dd is day number. For example 0582 = May 1982, 82 = 1982, or 052782 = May 27, 1982.

`b` = Ending date in the form {yy|mmyy|mmddyy}. If there is no date given for the ending date, only those entries with the starting date will be output.

4. SYSTEM RESPONSE

`NG` = No good. Interpreted version of MEMLOG entries are not available on the 3B21D hardware platform.

`PF` = Printout follows. Followed by the OP:MEMERRS output message.

`RL` = Retry later. Unable to open output file.

5. REFERENCES

Output Message(s):

```
OP:MEMERRS
REPT:CU
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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OP:MEMSIZE

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a memory forecast report on the amount of processor memory required to retrofit to a subsequent software release.

2. FORMAT

```
OP:MEMSIZE,TORELEASE=a
```

3. EXPLANATION OF MESSAGE

`a` = Release to which the office will retrofit ("5E81", "5E91" etc.).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:MEMSIZE output message. Processing may take up to 10 minutes.

`RL` = Retry later. Request was denied, possible reason is because a memory forecasting job is already running.

5. REFERENCES

Input Message(s):

```
STP:MEMSIZE
```

Output Message(s):

```
OP:MEMSIZE
```

Other Manual(s):
235-070-100 *Switch Administration and Engineering Guidelines*
235-105-248 *Software Release Retrofit*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-600-400 *Audits Manual*

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OP:MGDSC

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests total number of messages that have been discarded (MGDSC) due to brevity control and/or message queue overflow from administrative module (AM) operational kernel process, communication module processor (CMP), or a switching module (SM). A message class name or 'ALL', for all message classes, must be specified.

2. FORMAT

```
OP:MGDSC,{AM|CMP=a|SM=b},MSGCLS={c|ALL};
```

3. EXPLANATION OF MESSAGE

`a` = CMP number.

`b` = SM number.

`c` = Valid message class name.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM IS NOT AVAILABLE` = The request cannot be executed now due to the requested SM is either unavailable or not equipped.
- `CMP IS NOT AVAILABLE` = The request cannot be executed now due to the requested CMP is either unavailable or not equipped.

`PF` = Printout follows. The OP:MGDSC output message follows providing information of the request.

5. REFERENCES

Input Message(s):

```
CLR:MGDSC
OP:LPS
```

Output Message(s):

```
OP:MGDSC
OP:LPS
```

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OP:MHD-CFG

Software Release: 5E15 and later
Command Group: AM
Application: 5
Type: Input

1. PURPOSE

Requests the current configuration of the moving head disks (MHDs) and the status of the automatic MHD configuration (CFG) feature.

2. FORMAT

```
OP:MHD:CFG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:MHD output message.

5. REFERENCES

Input Message(s):

```
ALW:AUTOCFG
INH:AUTOCFG
SW:MHD
```

Output Message(s):

```
OP:MHD
REPT:MHD-CONFIG
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-600-30x *ECD/SG Data Base*
235-105-210 *Routine Operations and Maintenance*

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OP:MHD-INFO-A

Software Release: 5E15 - 5E17(1)
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests information regarding the specified moving head disk (MHD). Information includes:

- Unit name and number of disk file controller (DFC).
- Unit name and number of the small computer system interface (SCSI) bus (SBUS) on which the specified MHD is connected.
- Device ID.
- Physical port.
- Major status.
- Equipage.
- Number of tracks.
- Validity of the volume table of contents (VTOC).
- Unit reserved.
- Usability.
- Unit essential.
- Unit's mate.

2. FORMAT

```
OP:MHD=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = MHD member number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:MHD-INFO output message.

5. REFERENCES

Input Message(s):

```
OP:DFC-INFO
OP:MT-INFO
```

Output Message(s):

```
OP:MHD-INFO
```

Input Appendix(es):

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```
APP:RANGES
```

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OP:MHD-INFO-B

Software Release: 5E18(1) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests information regarding the specified moving head disk (MHD). Information includes:

- Disk file controller (DFC) unit name, number, and major status.
- DFC microcode (firmware/pumpcode) version.
- Small computer system interface (SCSI) bus (SBUS) unit number, device ID, and major status.
- Unit name and number of MHD.
- Device type.
- Device ID.
- Major status of MHD.
- Validity of the volume table of contents (VTOC).
- Usability.
- Unit reserved.
- Unit essential.
- Unit's mate.
- Physical disk size.
- Disk size based on the UCB equipage value.
- VTOC size based on the UCB mv value.
- VTOC size based on the last used block in the VTOC.
- Disk/UCB/VTOC compatibility.
- Product identification number.
- Device firmware revision level.
- Serial number.

2. FORMAT

```
OP:MHD=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = MHD member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:MHD-INFO output message.

5. REFERENCES

Input Message(s):

```
OP:DFC-INFO
OP:MT-INFO
```

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Output Message(s):

```
OP:MHD-INFO
```

Input Appendix(es):

```
APP:RANGES
```

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OP:MON-CTL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the control information of the monitor is output to the receive-only printer (ROP) or a file.

2. FORMAT

```
OP:MON,CTL,{AM|SM=a|CMP=b-c},WTD,{ROP|FN="d"};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`WTD` = "What to do" or "What to dump" keyword.

`a` = Switching module (SM) number.

`b` = Message switch side (0 or 1).

`c` = Communications module processor (CMP) number.

`d` = Pathname of *UNIX*® RTR operating system file name (FN). Quotation marks are required.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows. Followed by the OP:MON-CTL output message.

`RL` = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-DSP
OP:MON-PID
```

Output Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
```

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OP:MON-DSP-A

Software Release: 5E15 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the read-only printer (ROP) or a file.

The OP:MON-DSP message is used to dump data from the monitor buffer to the ROP or a file. If the specified option is dump first portion (DPF), dump range (DPR), dump last portion (DPL), or dump used portion (DPU), then the data is taken from the dispatch array area of the monitor buffer (format 1). If the option is dump all (DPA) then the entire monitor buffer is dumped into the specified file name (format 2).
Note: Excessive ROP may be generated by the response of this message.

2. FORMAT

```
[1]    OP:MON,DSP,{AM|SM=a|CMP=b-c},{DPF=d|DPR=e-f|DPL=g|DPU},{ROP|FN="h"};

[2]    OP:MON,DSP,{AM|SM=a|CMP=b-c},DPA,FN="h";
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`DSP` = Dispatch area of monitor buffer.

`a` = Switching module (SM) number.

`b` = Message switch side (0 or 1).

`c` = Communications module processor (CMP) number.

`d` = Number of words to be dumped from the beginning of the dispatch area of the monitor buffer.

`e` = Start word index for dumping a range of words from the dispatch area of the monitor buffer.

`f` = End word index for dumping a range of words from the dispatch area of the monitor buffer.

`g` = Number of words to be dumped from the end of the dispatch area of the monitor buffer.

`h` = Full pathname to *UNIX*® RTR operating system output file.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

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PF = Printout follows. Followed by the OP:MON-DSP output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-PID
```

Output Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
```

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OP:MON-DSP-B

Software Release: 5E16(2) only
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the ROP or a file.

The OP:MON-DSP message is used to dump data from the monitor buffer to the ROP or a file. If the specified option is dump first portion (DPF), dump range (DPR), dump last portion (DPL), or dump used portion (DPU), then the data is taken from the dispatch array area of the monitor buffer (format 1). If the option is dump all (DPA) then the entire monitor buffer is dumped into the specified file name (format 2).

Excessive ROP may be generated by the response of this message.

2. FORMAT

```
[1]    OP:MON,DSP,{AM|SM=a|CMP=b-c},{DPF=d|DPR=e-f|DPL=g|DPU},. . .
         . . .{ROP|FN="h"},SPD=i;
```

```
[2]    OP:MON,DSP,{AM|SM=a|CMP=b-c},DPA,FN="h"[,SPD=i];
```

---

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`DSP` = Dispatch area of monitor buffer.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = Message switch side. Valid value(s):

```
0
1
```

`c` = Communications module processor (CMP) number.

`d` = Number of words to be dumped from the beginning of the dispatch area of the monitor buffer.

`e` = Start word index for dumping a range of words from the dispatch area of the monitor buffer.

`f` = End word index for dumping a range of words from the dispatch area of the monitor buffer.

`g` = Number of words to be dumped from the end of the dispatch area of the monitor buffer.

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`h` = Full pathname to *UNIX*® RTR operating system output file.

`i` = Data retrieval speed multiplier. A value from 1 (default) to 10 may be specified. Data retrieval speed increases are not necessarily linear with increased values of "i". Extra care should be taken to avoid system overloads due to retrieving data at too high a rate.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows. Followed by the OP:MON-DSP output message.

`RL` = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-PID
```

Output Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
```

Input Appendix(es):

```
APP:RANGES
```

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OP:MON-DSP-C

Software Release: 5E17(1) only
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the ROP or a file.

The OP:MON-DSP message is used to dump data from the monitor buffer to the ROP or a file. If the specified option is dump first portion (DPF), dump range (DPR), dump last portion (DPL), or dump used portion (DPU), then the data is taken from the dispatch array area of the monitor buffer (format 1). If the option is dump all (DPA) then the entire monitor buffer is dumped into the specified file name (format 2).

Excessive ROP may be generated by the response of this message.

2. FORMAT

```
[1]    OP:MON,DSP,{AM|SM=a|CMP=b-c},{DPF=d|DPR=e-f|DPL=g|DPU},{ROP|FN="h"};
       ____________________________________________________________________

[2]    OP:MON,DSP,{AM|SM=a|CMP=b-c},DPA,FN="h";
       ____________________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`DSP` = Dispatch area of monitor buffer.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = Message switch side. Valid value(s):

```
0
1
```

`c` = Communications module processor (CMP) number.

`d` = Number of words to be dumped from the beginning of the dispatch area of the monitor buffer.

`e` = Start word index for dumping a range of words from the dispatch area of the monitor buffer.

`f` = End word index for dumping a range of words from the dispatch area of the monitor buffer.

`g` = Number of words to be dumped from the end of the dispatch area of the monitor buffer.

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`h` = Full pathname to *UNIX*® RTR operating system output file.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows. Followed by the OP:MON-DSP output message.

`RL` = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-PID
```

Output Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
```

Input Appendix(es):

```
APP:RANGES
```

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OP:MON-DSP-D

Software Release: 5E18(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the ROP or a file.

The OP:MON-DSP message is used to dump data from the monitor buffer to the ROP or a file. If the specified option is dump first portion (DPF), dump range (DPR), dump last portion (DPL), or dump used portion (DPU), then the data is taken from the dispatch array area of the monitor buffer (format 1). If the option is dump all (DPA) then the entire monitor buffer is dumped into the specified file name (format 2).

Excessive ROP may be generated by the response of this message.

2. FORMAT

```
[1]    OP:MON,DSP,{AM|SM=a|CMP=b-c},{DPF=d|DPR=e-f|DPL=g|DPU},. . .
         . . .{ROP|FN="h"},SPD=i;
```

```
[2]    OP:MON,DSP,{AM|SM=a|CMP=b-c},DPA,FN="h"[,SPD=i];
```

---

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`DSP` = Dispatch area of monitor buffer.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = Message switch side. Valid value(s):

```
0
1
```

`c` = Communications module processor (CMP) number.

`d` = Number of words to be dumped from the beginning of the dispatch area of the monitor buffer.

`e` = Start word index for dumping a range of words from the dispatch area of the monitor buffer.

`f` = End word index for dumping a range of words from the dispatch area of the monitor buffer.

`g` = Number of words to be dumped from the end of the dispatch area of the monitor buffer.

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`h` = Full pathname to *UNIX*® RTR operating system output file.

`i` = Data retrieval speed multiplier. A value from 1 (default) to 10 may be specified. Data retrieval speed increases are not necessarily linear with increased values of "i". Extra care should be taken to avoid system overloads due to retrieving data at too high a rate.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows. Followed by the OP:MON-DSP output message.

`RL` = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-PID
```

Output Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
```

Input Appendix(es):

```
APP:RANGES
```

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OP:MON-PID

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the count/time data on a specific program ID or all program IDs, or output count/time data on the operating system be output to either the receive-only printer (ROP) or a file.

2. FORMAT

```
OP:MON,PID,{AM|SM=a|CMP=b-c},{PRS|PRT}[=d],{ROP|FN=e};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = All program IDs or operating system data (default).

`PRS` = Counts of process real time usage.

`PRT` = Counts of system real time usage.

`a` = Switching module (SM) number.

`b` = Message switch side (0 or 1).

`c` = Communications module processor (CMP) number.

`d` = Specific program ID(0-259 OKP -- 0-649 SM -- 0-149 CMP)

`e` = Filename (FN) that data is dumped into.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows. Followed by OP:MON-PID-AM, OP:MON-PID-CMP, or the OP:MON-PID-SM output message depending upon input options.

`RL` = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

`OP:MON-CTL`

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```
OP:MON-DSP
```

Output Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID-AM
OP:MON-PID-CMP
OP:MON-PID-SM
```

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OP:MSUSP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the output of the status of the scan points (SP) on a metallic service unit (MSU) scan board.

2. FORMAT

```
OP:MSUSP=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = MSU number.

`c` = Service group number.

`d` = Scan board number.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the OP:MSUSP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`OP:MSUSP`

MCC Display Page(s):

(MSU SERVICE GROUP)

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OP:MT-INFO-A

Software Release: 5E15 - 5E16(1)
Command Group: AM
Application: 3B
Type: Input

1. PURPOSE

Requests information regarding the specified small computer system interface (SCSI) magnetic tape (MT).

- DFC member number and major status.
- DFC microcode (firmware/pumpcode) version.
- SCSI bus (SBUS) member number, device ID, and major status.
- Unit name and member number.
- Device type.
- Device ID.
- Major status.
- Unit reserved.
- Device firmware revision level.

2. FORMAT

```
OP:MT=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = MT member number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:MT-INFO output message.

5. REFERENCES

Input Message(s):

`OP:DFC-INFO`

Output Message(s):

`OP:MT-INFO`

Input Appendix(es):

`APP:RANGES`

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OP:MT-INFO-B

Software Release: 5E16(2) and later
Command Group: AM
Application: 3B
Type: Input

1. PURPOSE

Requests information regarding the specified small computer system interface (SCSI) magnetic tape (MT) device.

- Disk file controller (DFC) unit name, number, and major status.
- DFC microcode (firmware/pumpcode) version.
- SCSI bus (SBUS) unit number, device ID, and major status.
- Unit name and member number of MT device.
- Device type.
- Tape length.
- Device ID.
- Major status of MT device.
- Unit reserved.
- Product identification number.
- Device firmware revision level.

2. FORMAT

```
OP:MT=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = MT unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:MT-INFO output message.

5. REFERENCES

Input Message(s):

```
OP:DFC-INFO
OP:MHD-INFO
```

Output Message(s):

```
OP:MT-INFO
```

Input Appendix(es):

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APP:RANGES

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OP:MTTY

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a maintenance teletypewriter (MTTY).

2. FORMAT

```
OP:MTTY=a:INFO;
```

3. EXPLANATION OF MESSAGE

a	= Member number.

4. SYSTEM RESPONSE

PF	Printout follows. Followed by an OP:MTTY output message.

5. REFERENCES

Output Message(s):

OP:MTTY

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OP:MTTYC

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a maintenance teletypewriter controller (MTTYC).

2. FORMAT

```
OP:MTTYC=a:INFO;
```

3. EXPLANATION OF MESSAGE

a	= Member number.

4. SYSTEM RESPONSE

PF	Printout follows. Followed by an OP:MTTYC output message.

5. REFERENCES

Output Message(s):

```
OP:MTTYC
```

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51. OP:N

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OP:NAILUP-A

Software Release: 5E15 - 5E16(1)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a display of all specified nail-up connections nailed up using RC/V View 7.11 (NAIL-UP AND HAIRPIN SPECIFICATION) for a given SM, unit, facility, or equipment number.

Format 1 requests that nail-up connections on a specific unit, facility, or equipment number be displayed.

Format 2 requests that the number of nail-up connections on a switching module (SM) be displayed.

2. FORMAT

```
[1]    OP:NAILUP,a;
```

```
[2]    OP:NAILUP,QUAN,SM=b;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`QUAN` = Display the number of nailup ports only.

`a` = Unit, facility or equipment number. Valid value(s):

```
DEN=b-c-d-j;
DFI=b-c-d;
DS1=b-y-z-a[1]-b[1]-v-w;
DS1SFAC=b-r-s-t-u-v-w;
IFAC=b-n-o;
ILEN=b-n-m-q;
INEN=b-r-m-p;
NEN=b-r-s-t-u-v-w-x;
SDFI=b-e-f;
SLEN=b-e-l-p;
TEN=b-g-h-i-k;
TUCHBD=b-g-h-i;
```

`b` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input

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Messages manual.

e = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Remote terminal (RT) number for the DCLU. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = RT number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = IDCU facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = RT line number or PUB43801 channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`w` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `SM DOES NOT EXIST` = The message was not accepted because the SM does not exist.
- `SM UNEQUIPPED` = The message was not accepted because the SM is unequipped.
- `UNIT DOES NOT EXIST` = The message was not accepted because the trunk unit does not exist or the target equipment is not equipped.

`PF` = Printout follows. Followed by the OP:NAILUP output message.

5. REFERENCES

Output Message(s):

`OP:NAILUP`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-190-115 *Local and Toll System Features*

RC/V View(s):
7.11 NAIL-UP AND HAIRPIN SPECIFICATION

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OP:NAILUP-B

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a display of all specified nail-up connections nailed up using RC/V View 7.11 (NAIL-UP AND HAIRPIN SPECIFICATION) for a given SM, unit, facility, or equipment number.

Format 1 requests that nail-up connections on a specific unit, facility, or equipment number be displayed. Format 2 requests that the number of nail-up connections on a switching module (SM) be displayed.

2. FORMAT

```
[1]    OP:NAILUP,a;
```

```
[2]    OP:NAILUP,QUAN,SM=b;
```

---

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`QUAN` = Display the number of nailup ports only.

`a` = Unit, facility or equipment number. Valid value(s):

```
DEN=b-c-d-j;
DFI=b-c-d;
DS1=b-y-z-a[1]-b[1]-v-w;
DS1SFAC=b-r-s-t-u-v-w;
IFAC=b-n-o;
ILEN=b-n-m-q;
INEN=b-r-m-p;
NEN=b-r-s-t-u-v-w-x;
SDFI=b-e-f;
OIUEN=b-y-z-a[1]-b[1]-v-w-x;
SLEN=b-e-l-p;
TEN=b-g-h-i-k;
TUCHBD=b-g-h-i;
```

`b` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input

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Messages manual.

e = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Remote terminal (RT) number for the DCLU. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = RT number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = IDCU facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = RT line number or PUB43801 channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`w` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `SM DOES NOT EXIST` = The message was not accepted because the SM does not exist.
- `SM UNEQUIPPED` = The message was not accepted because the SM is unequipped.
- `UNIT DOES NOT EXIST` = The message was not accepted because the trunk unit does not exist or the target equipment is not equipped.

`PF` = Printout follows. Followed by the OP:NAILUP output message.

5. REFERENCES

Output Message(s):

`OP:NAILUP`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-190-115 *Local and Toll System Features*

RC/V View(s):
7.11 NAIL-UP AND HAIRPIN SPECIFICATION

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OP:NBRLIST

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a listing of internet protocol (IP) soft hand-off (SHO) neighbors within a given cluster or office.

The report will contain cluster, office, IP addresses and indications of whether the neighbor is locally or remotely defined.

2. FORMAT

```
OP:NBRLIST[,CLUSTER=a][,OFFICE=b];
```

3. EXPLANATION OF MESSAGE

`a` = Cluster name.

`b` = Office name.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more OP:NBRLIST output messages.

`NG` = No good. May also include:
- `CLUSTER NOT PROVISIONED` = The request has been denied. The message is valid but the cluster is not provisioned.
- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- `OFFICE NOT PROVISIONED` = The request has been denied. The message is valid but the office is not provisioned.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The request has been denied. The message is valid but the CMP is not available.

5. REFERENCES

Output Message(s):

```
OP:NBRLIST
QRY:NBRLIST
UPD:NBRLIST
```

Input Appendix(es):

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```
APP:RANGES
```

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OP:NETSTAT

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the output of the active user datagram protocol (UDP) ports for a specific optical interface unit (OIU) optical facility interface (OFI) protection group (PG).

WARNING: This message could potentially generate a lot of output. Because of this only one instance of the command is allowed to run per SM at a time.

2. FORMAT

```
OP:NETSTAT,OFI=a-b-c-d
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the OP NETSTAT output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

`OP:NETSTAT`

Input Appendix(es):

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APP:RANGES

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OP:NMNODES

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all nodes on the five-minute network management node schedule (NMNODES).

2. FORMAT

```
OP:NMNODES;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:NMNODES output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:NMNODES
CLR:NMNODES
```

Output Message(s):

```
OP:NMNODES
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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OP:NMOUT

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of the current set of network management (NM) output message inhibits on the engineering and administrative data acquisition system (EADAS) stimulated output messages.

2. FORMAT

```
OP:NMOUT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:NMOUT output message.

5. REFERENCES

Input Message(s):

```
ALW:NMOUT
INH:NMOUT
```

Output Message(s):

```
OP:NMOUT
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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OP:NMPGE

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of the current values on the Master Control Center (MCC) network management (NM) exception page (NMPGE).

2. FORMAT

```
OP:NMPGE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:NMPGE output message.

5. REFERENCES

Input Message(s):

```
OP:CGAP
OP:DOC
OP:SILC
OP:TGC
OP:TR
OP:SSTR
```

Output Message(s):

```
OP:NMPGE
```

Other Manual(s):
235-190-119 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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OP:NMSCH

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all trunk groups on the network management (NM) trunk group schedule. The NM trunk group schedule is a list of trunk groups of interest to network managers.

Note: For offices that have a direct link to the Remote Network Management Center, the trunk group schedule can be as large as 2000. This request may cause a large amount of data to be printed on the receive-only printer (ROP). The printing of this report can be stopped with the use of the STP:NMOP input message.

2. FORMAT

```
OP:NMSCH;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:NMSCH output message.

`RL` = Retry later. May also include:
- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:NMSCH
CLR:NMSCH
STP:NMOP
```

Output Message(s):

```
OP:NMSCH
```

Other Manual(s):
235-190-101 *Business and Residence Modular Features*

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MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)

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OP:NMTHD

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all network management (NM) threshold (NMTHD) values for maintenance usage, connections per circuit per hour (CCH), and attempts per circuit per hour (ACH) for trunk group indicators in the TRUNK block. This message is valid only for defense switched network (DSN) switches.

2. FORMAT

```
OP:NMTHD;
```

3. EXPLANATION OF MESSAGE

No variables. Refer to the Technical Specification manual for further information.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:NMTHD output message.

5. REFERENCES

Input Message(s):

`SET:NMTHD`

Output Message(s):

`OP:NMTHD`

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

109 (DSN NM EXCEPTION)
130 (OVERLOAD)

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OP:NPH

Software Release: 5E20(1) and later
Command Group: NPH
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the user datagram port (UDP) connections information of a specified network protocol handler (NPH) group.

A single or a range of UDP port(s) can be specified.

WARNING: This input message can potentially output many segments of data which could severely affect operations at the technician control center. The STP:NPH input message can be used to terminate the output from this input message.

2. FORMAT

```
OP:NPH,PHGRP=a-b-c[,UDP=d[&&e]];
```

3. EXPLANATION OF MESSAGE

`a` = switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = NPH group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Lower UDP port number. The UDP port number range is from 8192 to 65344.

`e` = Upper UDP port number. The UDP port number range is from 8192 to 65344.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP NPH output message.

`NG` No good. May include the following:

- `SYSTEM BUSY` = There is another OP NPH command running. System busy. OP NPH command is not started.
- `SM NOT AVAILABLE` = SM is not available. OP NPH command is not started.
- `SM UNEQUIPPED` = SM is not equipped. OP NPH command is not started.

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5. REFERENCES

Input Message(s):

```
STP:NPH
```

Output Message(s):

```
OP:NPH
STP:NPH
```

Input Appendix(es):

```
APP:RANGES
```

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OP:NPMEM

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report of the specified node processor (NP) or attached processor (AP) memory or port locations, and sends the output to a file or to the ROP or both.

WARNING: Due to the potential destructive nature of reading certain input/output (I/O) ports, do not read I/O ports on an ACTIVE node. The use of OP:NPMEM should be avoided when the NP under test is in the isolated segment, and other maintenance activity is occurring in the isolated segment. This interaction of OP:NPMEM with maintenance could have adverse affects on maintenance and the active segment of the common network interface (CNI) ring.

2. FORMAT

```
OP:NPMEM=[ROP | FILE | FILEROP | RAW3B | RAW80] {,RPCNa=0 | ,LNb=c}
{:MADDR | :BPORT | :APADDR}=d {:NBYTES | :NPORTS}=e [:{WTIME=f | UCL |
WTIME=f,UCL}];
```

3. EXPLANATION OF MESSAGE

`ROP` = Print the output at the read only printer. This is the default.

`FILE` = Place the output into a file.

NOTE: When this argument is specified, the input message doesn't echo on the read only printer.

`FILEROP` = Print the output at the read only printer and place the output into a file.

`RAW3B` = Place the output into a file.

NOTE: When this argument is specified, the content of the file will have both binary and ASCII data with the byte ordering for the binary portion being like that of a M68000 family of processors.

`RAW80` = Place the output into a file.

NOTE: When this argument is specified, the content of the file will have both binary and ASCII data with the byte ordering for the binary portion being like that of an I80 family of processors.

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`RPCN` = Ring Peripheral Controller Node request. When FILE or FILEROP is the argument to the NPMEM keyword, the file produced will be named with the D.RPCNa_b convention. When RAW3B or RAW80 is the argument to the NPMEM keyword, the file produced will be named with the DR.RPCNa_b convention.

`LN` = Link node request. When FILE or FILEROP is the argument to the NPMEM keyword, the file produced will be named with the D.LNa_b convention. When RAW3B or RAW80 is the argument to the NPMEM keyword, the file produced will be named with the DR.LNa_b convention.

`MADDR` = Read NP memory address.

`BPORT` = Read NP byte port number.

`APADDR` = Read AP memory address.

`NBYTES` = Dump memory.

`NPORTS` = Dump consecutive ports.

`WTIME` = Waiting time allowed for this command.

`UCL` = Unconditional request.

WARNING: When this option is specified, there is a risk of causing RING TRANSPORT ERRORS. This option is intended for use only in emergency situations where a node is marked faulty but believed to be otherwise.

`a` = The ring node (RN) group number for an RPCN. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The ring node (RN) group number for an LN. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = The RN member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = The start address for memory or port to be dumped. For a node processor memory or port request, the start address is specified as a twenty bit address: 16 bits virtual address (bits 0-15) plus a 4 bit segment (bits 16-19) for memory dumps, and a don't care segment for port dumps. For attached processor memory dumps, the start address is specified as a 32-bit physical address when the node is not in the ACTIVE state, and a 32-bit virtual address for ACTIVE nodes.

`e` = Number of consecutive bytes to dump. The total number of bytes that can be obtained is 63488 for attached processors that are not active. A node in an isolated segment of the ring can only dump a maximum of 432 bytes for the ROP option. If these restrictions are satisfied, a request can obtain from 1 to 1024 bytes for ROP and from 1 to the total memory size available in the node for FILE, FILEROP, RAW3B, or RAW80.

`f` = Wait time limit for the duration of the data dump specified in minutes. Range is 1-60. When specified wait time expires, this command will be terminated. The default value for the wait time is 3 minutes.

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All desired data should be retrieved from the node processor before attempting to read memory back from an inactive attached processor since the read of the attached processor memory can destroy memory addresses X'80000 to X'90000 in the NP.

The memory or port specified is uploaded and the OP:NPMEM output message is generated. The data read will be segmented in 464 bytes or less. Each segment read will be blocked in 464 bytes or less for ROP dumps. Each block will be read in one time interval providing a static view (snapshot) of the block of memory.

Directory "/etc/log/" will be used as the default directory for file placement when the FILE, FILEROP, RAW3B or RAW80 argument is used. Users can direct the output file to any location by creating the file "npmempath" in directory "/no5text/ims/npfile/". The "npmempath" file can then contain the path to the directory where the file is to be placed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:NPMEM output message.

5. REFERENCES

Output Message(s):

`OP:NPMEM`

MCC Display Page(s):

1520 (RING NODE STATUS PAGE)

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OP:NVMEM-PSUCOM-A

Software Release: 5E18(1) - 5E19(1)
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a list of the version identifiers be printed for the non-volatile memory (NVMEM) firmware and hardware images that reside on the control fanout, version 3 (CF3) and packet fanout, version 3 (PF3) circuits boards in the enhanced packet switching unit, version 2 (PSU2E) common (COM) controller(s). The version identifier associated with the specific image will be the last booted version since the packet switch unit common controller (PSUCOM) was not reset.

With the exception of Format 1, output can be suppressed. If the OFFNORM option is specified, then a list will only be printed for those circuits whose versions are inconsistent with the ODR version.

Format 1 requests the NVMEM version identifiers for a specific packet switching unit common controller.

Format 2 requests the NVMEM version identifiers for a specific PSUCOM on a specific switching module (SM) or range of SMs.

Format 3 requests the NVMEM version identifiers for a specific packet switching unit common controller. The report will only show version ID(s) for images that are inconsistent with the version ID of the optional data region (ODR) in the SM.

2. FORMAT

```
[1]    OP:NVMEM,PSUCOM=a-b-c[,OFFNORM];
```

```
[2]    OP:NVMEM,PSUCOM,SM=a[&&d][,OFFNORM];
```

```
[3]    OP:NVMEM,PSUCOM,SM=a[&&d],OFFNORM,NOPRINT;
```

3. EXPLANATION OF MESSAGE

`NOPRINT` = No print. This option suppresses printing of the OP:NVMEM-PSUCOM output response from SMs with no NVMEM version IDs in an off normal condition.

NOTE: This option is supported for use with Format 3 only.

`OFFNORM` = Off normal. Reports only version ID(s) for images that are inconsistent with the version ID of the ODR which resides on the SM.

`a` = SM number or lower limit of a range of SM numbers. A range of SMs can be specified for Formats 2 and 3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number.

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`c` = Service group number.

`d` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO SUCH SM` = Input message specified an SM that does not exist.
- `SM UNEQ` = Input message specified an SM that is unequipped.
- `UNIT UNEQ` = Input message specified an SM with no equipped PSU.

`PF` = Followed by the OP:NVMEM-PSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. May also include:
- `SM ISOLATED` = Cannot communicate with requested SM.
- `CANNOT CREATE TERMINAL PROCESS` = The request cannot be executed now due to the unavailability of the system resources necessary for creating a terminal process.

5. REFERENCES

Output Message(s):

`OP:NVMEM-PSUCOM`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):
1186,y PSU NETWORK (where y=PSU number)

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OP:NVMEM-PSUCOM-B

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a list of the version identifiers be printed for the non-volatile memory (NVMEM) firmware and hardware images that reside on the control fanout, and packet fanout circuits boards in the packet switching unit (PSU) common (COM) controller(s). The version identifier associated with the specific image will be the last booted version since the packet switch unit common controller (PSUCOM) was not reset.

Output can be suppressed with Format 3. If the OFFNORM option is specified, then a list will only be printed for those circuits whose versions are inconsistent with the ODR version.

Format 1 requests the NVMEM version identifiers for a specific packet switching unit common controller.

Format 2 requests the NVMEM version identifiers for PSUCOMs on a specific switching module (SM) or range of SMs.

Format 3 requests the NVMEM version identifiers for PSUCOMs on a specific SM or range of SMs. However, the report will only show version ID(s) for images that are inconsistent with the version ID of the optional data region (ODR) in the SM.

2. FORMAT

```
[1]    OP:NVMEM,PSUCOM=a-b-c[,OFFNORM];
```

```
[2]    OP:NVMEM,PSUCOM,SM=a[&&d][,OFFNORM];
```

```
[3]    OP:NVMEM,PSUCOM,SM=a[&&d],OFFNORM,NOPRINT;
```

3. EXPLANATION OF MESSAGE

`NOPRINT` = No print. This option suppresses printing of the OP:NVMEM-PSUCOM output response from SMs with no NVMEM version IDs in an off normal condition.

NOTE: This option is supported for use with Format 3 only.

`OFFNORM` = Off normal. Reports only version ID(s) for images that are inconsistent with the version ID of the ODR which resides on the SM.

`a` = SM number or lower limit of a range of SM numbers. A range of SMs can be specified for Formats 2 and 3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number.

`c` = Service group number.

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`d` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO SUCH SM` = Input message specified an SM that does not exist.
- `SM UNEQ` = Input message specified an SM that is unequipped.
- `UNIT UNEQ` = Input message specified an SM with no equipped PSU.

`PF` = Followed by the OP:NVMEM-PSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. May also include:
- `SM ISOLATED` = Cannot communicate with requested SM.
- `CANNOT CREATE TERMINAL PROCESS` = The request cannot be executed now due to the unavailability of the system resources necessary for creating a terminal process.

5. REFERENCES

Output Message(s):

`OP:NVMEM-PSUCOM`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):
1186,y,x PSU NETWORK (where y=PSU number, x=SM number)

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OP:NVMEM-PSUPH

Software Release: 5E21(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a list of the version identifiers be printed for the non-volatile memory (NVMEM) for protocol handler for voice, version 7 (PHV7) boards. That includes firmware factory, writable, last booted and optical data region (ODR) image version IDs, processor asset and network debug asset (PANDA) field programmable gate array (FPGA) factory, writable, last booted and ODR image version IDs, frame selector FPGA factory, writable, last booted and ODR image version IDs.

Output can be suppressed with Formats 3 and 5. If the OFFNORM option is specified, then a list will only be printed for those circuits whose versions are inconsistent with the ODR version.

Format 1 requests the NVMEM version identifiers for a specific PHV7.

Format 2 requests the NVMEM version identifiers for PHV7s on a specific packet switching unit (PSU).

Format 3 requests the NVMEM version identifiers for PHV7s on a specific packet switching unit (PSU). However, the report will only show version ID(s) for images that are inconsistent with the version ID of the ODR in the PSU.

Format 4 requests the NVMEM version identifiers for PHV7s on a specific SM or range of SMs.

Format 5 requests the NVMEM version identifiers for PHV7s on a specific SM or range of SMs. However, the report will only show version ID(s) for images that are inconsistent with the version ID of the ODR in the SM.

2. FORMAT

```
[1]    OP:NVMEM,PSUPH=a-b-c-d[,OFFNORM];
       ____________________________________________________________

[2]    OP:NVMEM,PSUPH,PSU=a-b[,OFFNORM];
       ____________________________________________________________

[3]    OP:NVMEM,PSUPH,PSU=a-b,OFFNORM,NOPRINT;
       ____________________________________________________________

[4]    OP:NVMEM,PSUPH,SM=a[&&e][,OFFNORM];
       ------------------------------------------------------------

[5]    OP:NVMEM,PSUPH,SM=a[&&e],OFFNORM,NOPRINT;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`NOPRINT` = No print. This option suppresses printing of the OP:NVMEM-PSUPH output response from SMs with no NVMEM version IDs in an off normal condition.

NOTE: This option is supported for use with Format 3 and 5 only.

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OFFNORM = Off normal. Reports only version ID(s) for images that are inconsistent with the version ID of the ODR which resides on the SM.

a = SM number or lower limit of a range of SM numbers. A range of SMs can be specified for Formats 4 and 5. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PSU number.

c = Shelf number.

d = Protocol handler numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NO SUCH SM = Input message specified an SM that does not exist.
- SM UNEQ = Input message specified an SM that is unequipped.
- UNIT UNEQ = Input message specified an SM with no equipped PSU or a PSU that is unequipped.

PF = Followed by the OP:NVMEM-PSUPH output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. May also include:
- CANNOT CREATE TERMINAL PROCESS = The request cannot be executed now due to the unavailability of the system resources necessary for creating a terminal process.
- SM ISOLATED = Cannot communicate with requested SM.

5. REFERENCES

Output Message(s):

OP:NVMEM-PSUPH

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
118x (PSU SHELF)

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52. OP:O

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OP:ODD-AM-SM

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests a report of the office-dependent data (ODD) availability in the administrative module (AM), switching module(s) (SMs), and communication module processor CMP(s). Depending on the information required, one processor or any combination of the three may be requested.

This input message can be used to manually clear or set the ODDWARN MCC processor status lamp(s) on the 116, 1800,x, 1850, and/or 1851 MCC page(s) depending on the current amount of ODD usage.

2. FORMAT

```
[1]    OP:ODD,{AM|SM=a[&&b]|CMP=a[&&b]|AM[,CMP=a[&&b][,SM=a[&&b]]]};

[2]    OP:ODD,{AM|SM=a[&&b]|CMP=a[&&b]|CMP=a[&&b][,SM=a[&&b][,AM]]};

[3]    OP:ODD,{AM|SM=a[&&b]|CMP=a[&&b]|SM=a[&&b][,AM][,CMP=a[&&b]]]};
```

3. EXPLANATION OF MESSAGE

`AM` = Requests the ODD availability report in the administrative module.

`a` = SM or CMP number or the lower limit of the range whose availability report is requested.

`b` = Upper limit of the range of SM or CMP number specified whose availability report is requested.

4. SYSTEM RESPONSE

`NG` = No good. The input request is not valid.

`PF` = Printout follows. Followed by the OP:ODD output message.

5. REFERENCES

Input Message(s):

`OP:ODDWARN`

Output Message(s):

`OP:ODD`
`OP:ODDWARN`

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Other Manual(s):
235-105-220 *Corrective Maintenance*

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OP:ODDWARN

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests a report of office dependent-data (ODD) warning information in the specified processors. Two ODD warning conditions are reported as either normal or abnormal: the status of used ODD and the status of generated key (GK) or hashed relations in overflow after automatic reorganization. A hashed relation is one whose access method is DBACC_HASH. A GK relation is one whose access method is DBACC_GK.

Depending on the information required, one processor or any combination of the administration module (AM), communication module processors (CMPs), or switching modules (SMs) may be requested. At least one processor must be specified. ODD warning information will appear for every operational processor specified.

2. FORMAT

```
OP:ODDWARN{[,SM=a[&&b]][,CMP=c-d][,AM]};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = Message switch side of the communication module (CM) with the desired CMP. (0,1)

`d` = CMP number or peripheral control number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. May also include:
- `INVALID CMP PROCESSOR SPECIFIED` = The requested CMP processor was not operational.
- `NO VALID PROCESSOR SPECIFIED` = No requested processor was operational. At least one requested processor must be operational.

`PF` = Printout follows. The request was accepted because at least one operational processor was specified. Followed by the OP:ODDWARN output message for each operational processor requested.

5. REFERENCES

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Output Message(s):

```
OP:ODDWARN
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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OP:OFFNORM-CM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a list of all off-normal circuits in communication modules (CM). Circuits that are in forced active states or are in service but have hardware checks (HDWCHK) inhibited are considered off-normal.

2. FORMAT

```
OP:OFFNORM,CM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF	= Printout follows. Followed by the OP:OFFNORM output message.

5. REFERENCES

Output Message(s):

```
OP:OFFNORM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

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OP:OFFNORM-IS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Outputs a report of off-normal inter-SM (switching module) nailups (ISMNAILs) used for packet transport between SMs. "Off-normal" is to be equated with any nailup, which is not IS (in-service), and for which maintenance personnel action could affect the restoration of that ISMNAIL. The request allows data to be provided for a single SM or a contiguous range of SMs.

2. FORMAT

```
OP:OFFNORM,ISMNAIL,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and is followed by the OP:OFFNORM-IS output message.

`RL` = Retry later. The request cannot be executed immediately because the automatic task administrator (ATA) cannot currently schedule a new task, or an OP:LIST-ISMNAIL or another OP:OFFNORM-IS request is in progress (no more than one task of this type may be executed at any given time); retry later, when system load is reduced.

5. REFERENCES

Input Message(s):

```
STP:ISMNAIL
OP:LIST-ISMNAIL
```

Output Message(s):

```
OP:OFFNORM-IS
```

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OP:OFFNORM-PRI

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of all off-normal primary rate interface (PRI) integrated services digital network (ISDN) D-channels. Only the status of D-channels are listed. B-channels are not included in this report. An off-normal condition is in effect when a D-channel for a PRI group is out-of-service (OOS).

2. FORMAT

```
OP:OFFNORM,PRIGRP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and is followed by the OP:OFFNORM-PRI output message.

`RL` = Retry later. May also include:
- `FAILED TO CREATE PROCESS`
- `TOO MANY PROCESSES ACTIVE`

5. REFERENCES

Output Message(s):

`OP:OFFNORM-PRI`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

MCC Display Page(s):

107 (CIRCUIT LIMIT)

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OP:OFFNORM-QPHN

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status for all offnormal quad-link packet switch protocol handler links (QPHLNKs) on a host global switching module (HOST GSM). This type of request is useful in determining the overall "health" of QPH operation on a HOST GSM, as part of corrective maintenance activities (or periodic offnormal reports).

2. FORMAT

```
OP:OFFNORM,QPHNET[,GSM=a|ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Report status of all offnormal QPHLNKs on all GSMs in the office with QPHs equipped.

`a` = GSM number. If no SM number is specified and only one CCS GSM exists in the office, that GSM will be defaulted.

4. SYSTEM RESPONSE

`PF` = The request has been accepted. An OP:OFFNORM,QPHNET output message will follow.

`RL - GSM NOT AVAILABLE` = This response indicates that the input GSM is not available, because it is isolated or undergoing an initialization. Retry later.

`NG - SM UNEQUIPPED` = This response indicates that the input GSM is not an equipped SM.

`NG - NOT A GSM` = This response indicates that the input GSM is not a provisioned GSM.

`NG - NO GSM PROVISIONED` = No GSM was specified or ALL option was input, and there are no GSMs provisioned in the office.

`NG - GSM MUST BE SPECIFIED` = No GSM was specified, and there is more than one GSM provisioned in the office.

`RL - CURRENTLY IN PROGRESS` = Only one OP:OFFNORM,QPHNET,ALL request can be processed at a time. Retry later.

5. REFERENCES

Output Message(s):

`OP:OFFNORM,QPHNET`

Other Manual(s):
235-200-116 *5ESS Switch Signaling Gateway Common Channel Signaling*

MCC Display Page(s):

1540 (GSM CMT STATUS)

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OP:OFFNORM-SM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a list of all off-normal circuits in switching modules (SM).

2. FORMAT

```
OP:OFFNORM,SM=a[&&b][,NOPRINT];
```

3. EXPLANATION OF MESSAGE

`NOPRINT` = No print. This option prevents the printing of the OP:OFFNORM-SM output response for those SMs that have no OFFNORM units. Selecting this option also condenses the OP:OFFNORM-SM report for SMs that have master inhibits applied for the hardware error checks. When this option is selected, the report will simply indicate that the SM has master inhibits applied for the hardware error checks without listing all the off-normal circuits in the SM.

Note: If a large amount of records are requested, then some records may not be printed on the receive-only printer (ROP) due to the finite queuing capability.

`a` = SM number or lower limit for a range of SM numbers.

`b` = Upper limit for a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

- `SM DOES NOT EXIST` = The message syntax is valid, but the requested SM is not in the system.
- `SM UNEQUIPPED` = The message syntax is valid, but the requested SM is unequipped. In case of a range request, all SMs are unequipped.

`PF` = Printout follows. Followed by the OP:OFFNORM-SM output message.

`RL` = Retry later. The request cannot be executed now. A lack of system resources has resulted in loss of communication to the requested SM.

5. REFERENCES

Output Message(s):

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```
OP:OFFNORM-SM
```

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OP:OFL

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all currently off-line administrative module (AM) hardware units. This format provides a list of all off-line units of a particular type.

2. FORMAT

```
OP:OFL[:DATA,{a[=b][,c=d]}];
```

3. EXPLANATION OF MESSAGE

`a` = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for AM unit names.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Subunit name, if '`a`' = `CU`. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for AM control unit (CU) subunit names.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:OFL output message.

`RL` = Retry later.

`?D` = Data field error.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
```

Output Message(s):

```
OP:CFGSTAT
OP:OFL
```

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Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

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OP:OFR-CAT

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests the printing of all categories or one category of office record forms.

2. FORMAT

```
OP:OFR:CAT=a[,OPT=b][,FORMAT=c][,DEVICE=d];
```

3. EXPLANATION OF MESSAGE

`a` = Category to be printed.

Valid value(s) for the switch:

`ADMIN`	= Administrative forms.
`ALL`	= All categories, all forms.
`APPROC`	= Applications processor forms.
`BRCSFD`	= Business and residential customer services (BRCS) feature definition forms.
`CONFIG`	= Configuration forms.
`DARC`	= Digit analysis, screening, routing and charging forms.
`EQUIP`	= Equipment forms.
`LASS`	= Local area signaling service forms.
`LINE`	= Line forms.
`OSPS`	= Operator Services Position System forms.
`PKT`	= Packet switching forms.
`TRUNK`	= Trunk forms.

Valid value(s) for wireless centrex:

`WCTX`	= Wireless centrex forms. This is the only category valid for Wireless Centrex offices.

`b` = Printing option. Valid value(s):

`DELAY`	= Delay printing until the time set by the IN:OFR-PARM input message.

`c` = Format of office record option. Valid value(s):

`RAW`	= Office record output is in RAW format. Each row of output in a "RAW" formatted office record is an instance of the Recent Change view associated with the form type being processed. Each row contains tab separated values associated with the fields defined for the particular Recent Change view. When using this format the output is machine readable and can be post processed more easily than the default formatting of office records. Office records that are to be raw formatted are scheduled in either of the two following ways: OP:OFR:CAT=XXX,FORMAT=RAW OP:OFR:FORM=XXX,FORMAT=RAW

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d = Device/file string of up to 9 characters.

Device	Use
"FILE"	OFR.E(reqid) and OFR.O(reqid) are error and output files respectively in the RCLOG partition.
"FIL_FRMID"	(formid).E and (formid).O are error and output files respectively in the RCLOG partition. These files are created in pairs per formid. The term formid has the same meaning as form type. For example, for form type (or formid) 5050, files 5050.E and 5050.O would be created.
"mt00"	High density tape device, IOP 0 rewind after I/O.
"mt04"	High density tape device, IOP 0 do not rewind after I/O.
"mt08"	Low density tape device, IOP 0 rewind after I/O.
"mt0c"	Low density tape device, IOP 0 do not rewind after I/O.
"mt18"	Low density tape device, IOP 1 rewind after I/O.
"mt1c"	Low density tape device, IOP 1 do not rewind after I/O.
"null"	A dummy port used for error checking
"report"	A file in the RCLOG partition (appends)
"ttyR"	Office records printer
"ttyT"	Traffic printer
"ttyU"	Belt line B
"ttyi"	*SLC*®96
"ttyj"	Supplemental trunk/line work station, first
"ttyk"	Supplemental trunk/line work station, sixth
"ttyl"	Supplemental trunk/line work station, first
"ttym"	Supplemental trunk/line work station, second
"ttyn"	Supplemental trunk/line work station, third
"ttyo"	Supplemental trunk/line work station, fourth
"ttyp"	Recent change and verify/Reserved Service Bureau
"ttyq"	Recent change and verify/Network Administration Center
"ttyr"	Automatic line insulation test/Reserved Service Bureau
"ttys"	Magnetic tape controller
"ttyt"	Magnetic tape controller
"ttyu"	Belt line A
"ttyv"	Local recent change and verify
"ttyw"	Remote recent change and verify
"ttyx"	Master Control Center/Switching Control Center System
"ttyy"	Master Control Center/Switching Control Center System
"ttyz"	Master Control Center/Switching Control Center System

Note: FILE option is used primarily by an Operational Support System (OSS) to request office records and store the output in files.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:OFR-CAT output message.

Note: A request identification number is printed in the OP:OFR-CAT output message. This number is used in the STP:OFR input message to stop the printing of office records.

5. REFERENCES

Input Message(s):

```
ABT:OFR
IN:OFR-PARM
OP:OFR-STATUS
STP:OFR
```

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Output Message(s):

```
OP:OFR-CAT
OP:OFR-ERROR
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-080-100 *Translation Guide (TG-5)*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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OP:OFR-FORM

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests printing of an office record form.

2. FORMAT

```
OP:OFR:FORM=a[,b=c[-d]][,OPT=e][,FORMAT=f][,DEVICE=g];
```

3. EXPLANATION OF MESSAGE

a = Form type. Refer to variable 'd' for the form types that can be requested.

b = Key ID associated with the form type used for optional ranging. Refer to variable 'd' for additional Key ID.
Note: A key ID is required for form 56151.
Note: A "*" in the key ID field represents a secondary key. To request the form with this key, the other key ID associated with this form is required to be entered.

c = Optional key ID number, or the lower limit of a range of key ID numbers.

d = Optional key ID number, or the upper limit of a range of key ID numbers. Refer to the APP:KEY-ID appendix in the Appendixes section of the Input Messages manual.

e = Printing option. Valid value(s):
DELAY = Delay printing until the time set by the IN:OFR-PARM input message.

f = Format of office record option. Valid value(s):
RAW = Office record output is in RAW format. Each row of output in a "RAW" formatted office record is an instance of the Recent Change view associated with the form type being processed. Each row contains tab separated values associated with the fields defined for the particular Recent Change view. When using this format the output is machine readable and can be post processed more easily than the default formatting of office records.

Office records that are to be raw formatted are scheduled in either of the two following ways:

OP:OFR:CAT=XXX,FORMAT=RAW

OP:OFR:FORM=XXX,FORMAT=RAW

g = Device/file string of up to 9 characters.

Device	Use
"FILE"	OFR.E(reqid) and OFR.O(reqid) are error and output files respectively in the RCLOG partition. Refer to

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	the following note.
"FIL_FRMID"	(formid).E and (formid).O are error and output files respectively in the RCLOG partition. These files are created in pairs per formid. The term formid has the same meaning as form type. For example, for form type (or formid) 5050, files 5050.E and 5050.O would be created.
"mt00"	High density tape device, IOP 0 rewind after I/O.
"mt04"	High density tape device, IOP 0 do not rewind after I/O.
"mt08"	Low density tape device, IOP 0 rewind after I/O.
"mt0c"	Low density tape device, IOP 0 do not rewind after I/O.
"mt18"	Low density tape device, IOP 1 rewind after I/O.
"mt1c"	Low density tape device, IOP 1 do not rewind after I/O.
"null"	A dummy port used for error checking.
"report"	A file in the RCLOG partition (appends).
"ttyC"	STLWS7 DEVICE TYPE=TTY28 (x22) BAUD RATE=4800
"ttyD"	STLWS8 DEVICE TYPE=TTY29 (x23) BAUD RATE=4800
"ttyE"	STLWS9 DEVICE TYPE=TTY30 (x24) BAUD RATE=4800
"ttyF"	STLWS10 DEVICE TYPE=TTY31 (x25) BAUD RATE=4800
"ttyG"	STLWS11 DEVICE TYPE=TTY32 (x26) BAUD RATE=4800
"ttyH"	STLWS12 DEVICE TYPE=TTY33 (x27) BAUD RATE=4800
"ttyI"	STLWS13 DEVICE TYPE=TTY34 (x28) BAUD RATE=4800
"ttyR"	Office records printer.
"ttyT"	Traffic printer.
"ttyU"	Belt line B.
"ttyY"	STLWS14 DEVICE TYPE=TTY50 (x32) BAUD RATE=4800
"ttyi"	*SLC*®96
"ttyj"	Supplemental trunk/line work station, fifth.
"ttyk"	Supplemental trunk/line work station, sixth.
"ttyl"	Supplemental trunk/line work station, first.
"ttym"	Supplemental trunk/line work station, second.
"ttyn"	Supplemental trunk/Line work station, third.
"ttyo"	Supplemental trunk/line work station, fourth.
"ttyp"	Recent change and verify/Reserved Service Bureau.
"ttyq"	Recent change and verify/Network Administration Center.
"ttyr"	Automatic line insulation test/reserved service bureau.
"ttys"	Magnetic tape controller.
"ttyt"	Magnetic tape controller.
"ttyu"	Belt line A.
"ttyv"	Local recent change and verify.
"ttyw"	Remote recent change and verify.
"ttyx"	Master Control Center/Switching Control Center System.
"ttyy"	Master Control Center/Switching Control Center System.
"ttyz"	Master Control Center/Switching Control Center System.

Note: FILE option is used primarily by an Operational Support System (OSS) to request office records and store the output in files.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:OFR-FORM output message.

Note: A request identification number is printed in the OP:OFR-FORM output message. This number is used in the STP:OFR input message to stop the printing of office records.

5. REFERENCES

Input Message(s):

`ABT:OFR`

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```
IN:OFR-PARM
OP:OFR-STATUS
STP:OFR
```

Output Message(s):

```
OP:OFR-ERROR
OP:OFR-FORM
```

Input Appendix(es):

```
APP:KEY-ID
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-080-100 *Translation Guide (TG-5)*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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OP:OFR-STATUS

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests a list of all output requests or all output requests of a specific type that are queued internally by the on-line office records capability and/or lists all the internal operating parameters of the on-line office records capability.

2. FORMAT

```
OP:OFR:STATUS=a[,REQID=b];
```

3. EXPLANATION OF MESSAGE

`a` = Request type. Valid value(s):

`COMPLETED`	= List all completed output requests.
`PARM`	= List the internal operating parameters, refer to the OP:OFR-STATUS output message for more details.
`PENDING`	= List all pending output requests.
`PROCESSING`	= List the processing output request.
`REQID`	= List the specified output request.
`SCHED`	= List all internal output requests.

`b` = Request identification number of print request, as given in the OP:OFR-CAT or OP:OFR-FORM output messages.

Note: Default prints three messages, SCHED, PARM and KEYS.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by one or more OP:OFR-STATUS output messages.

5. REFERENCES

Input Message(s):

```
ABT:OFR
IN:OFR-PARM
OP:OFR-CAT
OP:OFR-FORM
STP:OFR
```

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Output Message(s):

```
OP:OFR-CAT
OP:OFR-FORM
OP:OFR-STATUS
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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OP:OLHB

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the report of the outgoing line history block (OLHB) information for local area signaling services (LASS).

2. FORMAT

```
[1]    OP:OLHB,DN=a;

[2]    OP:OLHB,b[,PTY=c];
```

3. EXPLANATION OF MESSAGE

a = Ten-digit directory number (DN) of the line.

b = Valid value(s):

```
ILEN=d-e-f-g
 LCEN=d-u-t-j
 LCKEN=d-u-i-r-s
 LEN=d-h-k-l-m-n
 SLEN=d-o-p-q
```

c = Party. One of the following for an analog ILEN, LEN, LCEN, or SLEN. Refer to the RC/V view 1.6 for the specified office equipment (OE) number. Valid value(s):

0–9	= Multi-party (4, 5, 8, or 10 party lines).
I	= Individual line (default).
R	= 2 party ring.
T	= 2 party tip.

One of the following for an ISDN LCEN, ILEN, or LCKEN. Refer to the RC/V view 23.1 for the specified OE number. Valid value(s):

0–7	= Multi-point.
I,0	= Point-point (default).

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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g = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = ISDN line unit (ISLU/ISLU2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- INVALID OFFICE EQUIPMENT NUMBER = This request was denied because an invalid office equipment number was entered.
- MUST ENTER TEN NUMERIC DIGITS = This request was denied because ten numeric digits must be entered.

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`PF` = Printout follows. Followed by the OP:OLHB output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

`OP:OLHB`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-118-243 *Recent Change Verify*
235-190-130 *Local Area Signaling Services Features*

RC/V View(s):

1.6 [COMPOSITE LINE (LINE ASSIGNMENT)]
23.1 (DSL USERS)

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OP:OMDB

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the message text, message class, and alarm level from an OMDB entry be output for the given key or keys.

2. FORMAT

```
OP:OMDB:a: KEY b;
```

3. EXPLANATION OF MESSAGE

`a` = Copy of output message database to access. Valid value(s):
- `ACT` = Active OMDB.
- `DISK` = OMDB disk file.

`b` = Message key (or list of keys). Refer to the APP:OMDB-X-REF appendix in the Appendixes section of the Output Messages manual for a list of valid OMDB keys.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID KEY` = A message key is not within the valid range.
- `INVALID OMDB COPY` = DISK or ACT not entered for OMDB copy to access.
- `SYNTAX ERROR` = Command is not in the correct format.
- `TOO MANY KEYS` = Maximum of 32 keys are allowed per input message.

`PF` = Printout follows. Followed by the OP:OMDB output message.

5. REFERENCES

Input Message(s):

```
ACTV:OMDB
UPD:OMDB
```

Output Message(s):

```
OP:OMDB
```

Output Appendix(es):

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```
APP:OMDB-X-REF
```

Other Manual(s):
235-105-250 *System Recovery*

OP:OMP

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the global maintenance switching module (SM) number and the status of the enhanced Flexent\(rg packet switch (FPS) traffic measurements interface for high capacity mobile switching center (MSC) Office option.

2. FORMAT

```
OP:OMP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:OMP output message.

5. REFERENCES

Output Message(s):

OP:OMP

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OP:OOS

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all currently out-of-service (OOS) administrative module (AM) hardware units. This format provides a list of all out-of-service units of a particular type.

2. FORMAT

```
OP:OOS[,a[=b][,c=d]];
```

3. EXPLANATION OF MESSAGE

`a` = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for AM unit names.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Subunit name, if 'a' = `CU`. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for AM control unit (CU) subunit names.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:OOS output message.

`RL` = Retry later.

`?D` = Data field error.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
```

Output Message(s):

```
OP:CFGSTAT
OP:OOS
```

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Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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OP:OPUMP

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests the offline pump status of a switching module's (SM's) peripheral units. The SM prints out a list of the peripherals that failed the offline pump (refer to the OP:OPUMP output message).

2. FORMAT

```
OP:OPUMP,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or the lower limit of a range of SM numbers.

`b` = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the SM or range of SMs specified do not exist.

`PF` = Printout follows. Followed by the OP:OPUMP output message.

5. REFERENCES

Input Message(s):

```
ST:OPUMP-SM
STP:OPUMP-SM
```

Output Message(s):

```
OP:OPUMP
```

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OP:OSPS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a listing of the external database (XDB) multi-line hunt group (MLHG) which corresponds to three input parameters: OPERATOR SERVICE CENTER (OSC 1-32), OPERATOR SERVING TEAM (ST 0-128), and DATABASE (DB 1-7).

2. FORMAT

```
OP:OSPS,OSC=a,ST=b,DB=c;
```

3. EXPLANATION OF MESSAGE

`a` = OSC number.

`b` = ST number.

`c` = DB number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:OSPS output message.

`RL` = Retry later. The request has been denied, probably due to system load. The input message OP:JOBSTATUS can be used to determine if the RL was because the maximum number of request jobs is active.

5. REFERENCES

Output Message(s):

`OP:OSPS`

MCC Display Page(s):

(DATA LINK DSLS)
(DATALINKS)

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OP:OUTCLS

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests one or all of the available output classes in the equipment configuration database (ECD) and the device(s) assigned to these output classes.

2. FORMAT

```
OP:OUTCLS=a[:DEST=b];
```

3. EXPLANATION OF MESSAGE

`a` = Output class. If a single output class is requested, the devices assigned to that output class are displayed. If ALL output classes are requested, the devices assigned to all output classes in the ECD are displayed.

`b` = Destination class. If a destination is requested, the output message will be sent to the specified output class. Otherwise, the output message will be directed to the maintenance teletype (MTTY).

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Output Message(s):

`OP:OUTCLS`

Output Appendix(es):

`APP:MSGCLS`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)

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OP:OVRLD-AM-SM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests an overload status report. The report is for the administrative module (AM), a switching module (SM), a communications module processor (CMP), a direct link node processor (DLN), or a quad-link packet switch gateway processor (QGP).

2. FORMAT

```
OP:OVRLD,{ALL|AM|SM=a[&&b][,LSM][,HSM][,RSM][,ORM][,TRM][,DRM]|
CMP=c[,PRIM|,MATE]|DLN|QGP=d-e};
```

3. EXPLANATION OF MESSAGE

`ALL` = Give the status of each module that is currently in overload. If no module is in overload, then no message will be given.

`HSM` = Give the status of all host SMs in the SM range requested.

`LSM` = Give the status of all local SMs in the SM range requested.

`MATE` = Mate CMP.

`ORM` = Give the status of all optical remote SMs in the SM range requested.

`PRIM` = Primary CMP.

`RSM` = Give the status of all remote SMs in the SM range requested.

`TRM` = Give the status of all two-mile optical remote SMs in the SM range requested.

`DRM` = Give the status of all distinctive remote SMs in the SM range requested.

`a` = Switching module (SM) number, or lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = Communication module processor (CMP) number.

`d` = Message switch side number.

`e` = QGP number.

4. SYSTEM RESPONSE

`OK` = Good. Valid value(s):

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– `NO MODULE OVERLOADED` = Message received, but there are no modules in overload, and there will be no printed report.

`PF` = Printout follows. Followed by the OP:OVRLD output message.

5. REFERENCES

Output Message(s):

`OP:OVRLD`

Other Manual(s):
235-190-115 *Local and Toll System Features*

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53. OP:P

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OP:PB

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the display of the position busy (PB) and not position busy (NPB) status of each of the trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test calls. From this data, the user can direct the destination of the incoming 101 test line call by using the input messages SET:PB and CLR:PB.

2. FORMAT

```
OP:PB;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NA	= No acknowledgement. The request has not been acknowledged. It is probable the request has been lost.
PF	= Printout follows. The request has been accepted. Followed by the OP:PB output message displaying the position busy status of the TLWSs or CTTUs.
RL	= Retry later. The request has been denied due to system overload.

5. REFERENCES

Input Message(s):

```
CLR:PB
SET:PB
```

Output Message(s):

```
OP:PB
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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RC/V View(s):

8.1 (OFFICE PARAMETERS)
14.0 (VERIFY 101 TEST LINE)

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OP:PCF-A

Software Release: 5E17(1) - 5E18(1)
Command Group: PCF
Application: 5
Type: Input

1. PURPOSE

Requests the status of a packet data serving node (PDSN) or all PDSNs on a packet control function (PCF).

Format 1 requests the status for a single PDSN on a PCF.

Format 2 requests the status for all PDSNs on a PCF by optionally specifying the PDSN state. If the PDSN state is not specified, all PDSN statuses will be displayed.

2. FORMAT

```
[1]    OP:PCF,CHNG=a-b-c-d,PDSNIP=e-f-g-h;
       ___________________________________________________________

[2]    OP:PCF,CHNG=a-b-c-d[,STATE=i];
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Internet Protocol address segment (0-255).

`f` = Internet protocol address segment (0-255).

`g` = Internet protocol address segment (0-255).

`h` = Internet protocol address segment (0-255).

`i` = PDSN state. Valid value(s):

`ALL`	= The status of PDSN can be any status.
`DEGRADED`	= The PDSN is in service, but marked degraded.
`IS`	= The PDSN is in service.
`OOS`	= The PDSN is out of service
`REMOVED`	= The PDSN has been degrown in RC/V but still has open sessions.
`UNKNOWN`	= The status of the PDSN is unknown.

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4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP PCF output message.

5. REFERENCES

Input Message(s):

STP:PCF

Output Message(s):

OP:PCF
STP:PCF

Input Appendix(es):

APP:RANGES

OP:PCF-B

Software Release: 5E19(1) and later
Command Group: PCF
Application: 5
Type: Input

1. PURPOSE

Requests the status of a packet data serving node (PDSN) or all PDSNs on a packet control function (PCF).

Format 1 requests the status for a single PDSN on a PCF.

Format 2 requests the status for all PDSNs on a PCF by optionally specifying the PDSN state, the PDSN ping status, or both. If the PDSN state or PDSN ping status is not specified, all PDSN statuses will be displayed.

Format 3 requests the PDSN ALL configuration table or PDSN IS configuration table or both of them by specifying the table type.

Format 3 is available only when the PDSN selection algorithm is selected in recent change. Otherwise, the request will be rejected.

2. FORMAT

```
[1]    OP:PCF,CHNG=a-b-c-d,PDSNIP=e-f-g-h;
       ___________________________________________________________

[2]    OP:PCF,CHNG=a-b-c-d[,STATE=i][,PING=j];
       ___________________________________________________________

[3]    OP:PCF,CHNG=a-b-c-d,TBL=k;
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Internet Protocol address segment (0-255).

`f` = Internet protocol address segment (0-255).

`g` = Internet protocol address segment (0-255).

`h` = Internet protocol address segment (0-255).

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i = PDSN state. Valid value(s):

ALL	= The status of PDSN can be any status.
DEGRADED	= The PDSN is in service, but marked degraded.
IS	= The PDSN is in service.
OOS	= The PDSN is out of service
REMOVED	= The PDSN has been degrown in RC/V but still has open sessions.
UNKNOWN	= The status of the PDSN is unknown.

j =PING status. Valid value(s):

ALL	= The status of PDSN PING can be any status.
ISPING	= The status of PDSN ping is IS-PING, meaning the PDSN can be pinged.
OOSPING	The status of PDSN ping is OOS-PING, meaning the PDSN can not be pinged.

k = The type of PDSN table. Valid value(s):

ALL	= Print the PDSN ALL configuration table which contains all the provisioned PDSNs.
IS	= Print the PDSN IS configuration table which contains the PDSNs with IS or UNKNOWN status.
BOTH	= Print both the PDSN ALL configuration table and the PDSN IS configuration table.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP PCF output message.

5. REFERENCES

Input Message(s):

```
STP:PCF
```

Output Message(s):

```
OP:PCF
STP:PCF
```

Input Appendix(es):

```
APP:RANGES
```

OP:PCTF

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of all per-call test failures (PCTFs) that have occurred in all switching modules (SMs), a range of SMs, or a particular SM since the last time the periodic list was printed. Requests which do not specify a range of SMs will result in all equipped SMs in the system being reported. Only one OP:PCTF request can be active in the system at any moment; any additional requests will be denied. The OP:PCTF request will not clear the SM based PCTF counts; only the periodic report (REPT:PCTF-SUMMARY) will cause the PCTF counts to be cleared (set to zero).

2. FORMAT

```
OP:PCTF[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the OP:PCTF output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
STP:PCTF
```

Output Message(s):

```
OP:PCTF
REPT:PCTF-SUMMARY
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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OP:PERF

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the Operating System for Distributed Switching (OSDS) resource monitoring utility to collect and report usage of OSDS message, process, stack, and timer control blocks. Reports will be generated periodically until the utility is disabled by the STP:PERF input message or after two hours have elapsed.

2. FORMAT

```
OP:PERF,{AM|CMP=a-b|SM=c}[,TIME=d];
```

3. EXPLANATION OF MESSAGE

`AM` = Operational kernel process in the administrative module (AM).

`a` = Message switch side (0 or 1).

`b` = Communications module processor (CMP) number.

`c` = Switching module (SM) number.

`d` = Interval, in minutes, between reports. (1-15, default 15)

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with a previous request, or with current system or equipment status. May also include:
- `CMP NOT EQUIPPED` = Requested CMP is not equipped.
- `INTERNAL ERROR` = An internal error has occurred while processing a CMP request.
- `PREV REQ INPROG, ISSUE 'STP:PERF,AM' TO CANCEL` = Previous request in progress. OSDS resource monitoring is already enabled in the AM.
- `PREV REQ INPROG, ISSUE 'STP:PERF,CMP=#-#' TO CANCEL` = Previous request in progress. OSDS resource monitoring is already enabled in the requested CMP.
- `PREV REQ INPROG, ISSUE 'STP:PERF,SM=###' TO CANCEL` = Previous request in progress. OSDS resource monitoring is already enabled in the requested SM.

`PF` = Printout follows. Followed by the OP:PERF output messages.

`RL` = Retry later. The request cannot be initiated now due to unavailable system resources. May also include:
- `CMP SOFT SWITCH INPG` = A CMP soft switch is in progress.
- `CMP UNAVAILABLE` = Requested CMP is out of service, initializing, or unavailable.

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5. REFERENCES

Input Message(s):

```
STP:PERF
```

Output Message(s):

```
OP:PERF
```

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OP:PERPH-SM-SUM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a summary of peripheral (PERPH) transient errors on switching modules (SMs). Peripheral transient errors are counted by peripheral fault recovery (PFR) but are not normally reported.

Two different types of peripheral transient error summary messages may be requested. The system (SYS) wide SM peripheral error summary message will print the total number of transient peripheral errors which have occurred in the requested SMs.

The system wide SM error summary is printed at 7:00AM, and cleared at 7:00PM, automatically each day. The system wide SM error summary counts can also be cleared by request.

It is possible to request that the system wide peripheral error summary be printed every hour. The hourly printout will be printed every hour from the time at which it was enabled. For example, if the hourly report mechanism is enabled at 18:44 then the first report will be at 19:44. The hourly reports will continue to be printed until the mechanism is disabled.

A more detailed summary of SM transient peripheral errors which lists the transient errors for SMs by unit type (UNIT) can also be requested. The error counts for the UNIT summary message can be cleared (CLR) by request, and are automatically cleared at 7:00 PM each day.

2. FORMAT

```
OP:PERPH,{SM[=a[&&b]][,CLR],SUM[=c]|HOURLY={ON|OFF}};
```

3. EXPLANATION OF MESSAGE

`CLR` = Clear unit type error summary information in each specified SM after summary information is printed.

Note: This will not clear out the system wide SM error summary counts.

`a` = SM number or lower limit of range of SM numbers. Default is all SMs.

`b` = Upper limit of range of SM numbers.

`c` = Summary (SUM) type. Valid value(s):

- `SYS` = Request system wide SM transient peripheral error summary
- `UNIT` = Request summary of transient peripheral errors by unit type for each SM indicated (default).

4. SYSTEM RESPONSE

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`NG` = No good. The request has been denied. May also include:
- `ALREADY IN REQUESTED STATE` = The request cannot be honored because the hourly report mechanism is already in the state requested.
- `SM UNEQUIPPED` = The request has been denied. The SM number does not match any equipped SM.

`OK` = Good. The request has been accepted.

`PF` = Printout follows. Followed by either the OP:PERPH-SYS-ES (if SUM=SYS) or OP:PERPH-SM-UES (if SUM=UNIT) output message.

`RL` = Retry later. System resource shortage. May also include:
- `CANNOT CREATE TERMINAL PROCESS` = The request cannot be executed now due to the unavailability of the system resources necessary for creating a terminal process.

5. REFERENCES

Output Message(s):

`OP:PERPH-SM-SUM`
`OP:PERPH-SM-UES`
`OP:PERPH-SYS-ES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

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OP:PLNT24-A

Software Release: 5E15 - 5E16(2)
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the plant report be printed at a time other than the regularly scheduled time.

WARNING: It is recommended that PART24 not be requested during busy hours because this request could generate up to 2000 lines of data.

2. FORMAT

```
OP:PLNT24:{a|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Print all parts of the 24-hour plant report.

`a` = Name of report part to be printed. Valid value(s):

`PART1`	= Service measurements.
`PART2`	= Equipment performance.
`PART3`	= Performance measurements.
`PART4[=x]`	= Remote switching module (RSM) maintenance service and performance, where '`x`' is the RSM number(s) (maximum of five numbers, separated by "-"). If '`x`' is not specified, all RSMs will be printed.
`PART5`	= Trunk error analysis.
`PART6`	= Interlata carrier measurements.
`PART7`	= Network call denial.
`PART8`	= RSM cluster measurements.
`PART9`	= Integrated services digital network (ISDN) packet switching office totals.
`PART10`	= Operator Services Position System (OSPS) processors counts.
`PART11`	= ISDN office totals.
`PART13`	= OSPS real-time rating query measures.
`PART14`	= OSPS facility administration measures.
`PART15`	= OSPS measurements.
`PART16`	= OSPS interflow measures.
`PART17`	= OSPS line information database (LIDB) measures.
`PART18`	= OSPS customer account services (CAS).
`PART19`	= Action control point (ACP) for software defined network.
`PART21`	= Leased network action point.
`PART22`	= OSPS intercept measures.
`PART23`	= OSPS customer account services release 3 signaling measures.
`PART24`	= Machine detected inter-office irregularity (MDII) trunk group measurements.
`PART25`	= ISDN user part (ISUP) office totals.

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PART26 = DS1 measurements.
PART27 = Static proportionate bidding (PB) measurements.
PART28 = OSPS international credit card validation (ICCV) measures by foreign database.
PART29 = OSPS line applications for consumers (LAC) signaling measures.
PART30 = OSPS originating line number screening (OLNS) measures.
PART36 = Signaling link performance.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA NOT AVAILABLE = The request was made during the automatic preparation of the report.
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.
- DATA NOT COLLECTED = Data for this part was not collected.
- FEATURE NOT AVAILABLE = The feature required to process the request is not present in the switch.

PF = Printout follows. The request has been received and is being processed. If the report is available, it will follow. Otherwise, an error message will follow.

5. REFERENCES

Input Message(s):

```
ALW:PLNT24
INH:PLNT24
OP:ST-PLNT24
```

Output Message(s):

```
OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
```

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```
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNT24-PT19
OP:PLNT24-PT21
OP:PLNT24-PT22
OP:PLNT24-PT23
OP:PLNT24-PT24
OP:PLNT24-PT25
OP:PLNT24-PT26
OP:PLNT24-PT27
OP:PLNT24-PT28
OP:PLNT24-PT29
OP:PLNT24-PT30
OP:PLNT24-PT36
OP:ST-PLNT24
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:PLNT24-B

Software Release: 5E17(1) and later
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the plant report be printed at a time other than the regularly scheduled time.

WARNING: It is recommended that PART24 not be requested during busy hours because this request could generate up to 2000 lines of data.

2. FORMAT

```
OP:PLNT24:{a|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Print all parts of the 24-hour plant report.

`a` = Name of report part to be printed. Valid value(s):

`PART1`	= Service measurements.
`PART2`	= Equipment performance.
`PART3`	= Performance measurements.
`PART4[=x]`	= Remote switching module (RSM) maintenance service and performance, where '`x`' is the RSM number(s) (maximum of five numbers, separated by "-"). If '`x`' is not specified, all RSMs will be printed.
`PART5`	= Trunk error analysis.
`PART6`	= Interlata carrier measurements.
`PART7`	= Network call denial.
`PART8`	= RSM cluster measurements.
`PART9`	= Integrated services digital network (ISDN) packet switching office totals.
`PART10`	= Operator Services Position System (OSPS) processors counts.
`PART11`	= ISDN office totals.
`PART13`	= OSPS real-time rating query measures.
`PART14`	= OSPS facility administration measures.
`PART15`	= OSPS measurements.
`PART16`	= OSPS interflow measures.
`PART17`	= OSPS line information database (LIDB) measures.
`PART18`	= OSPS customer account services (CAS).
`PART19`	= Action control point (ACP) for software defined network.
`PART21`	= Leased network action point.
`PART22`	= OSPS intercept measures.
`PART23`	= OSPS customer account services release 3 signaling measures.
`PART24`	= Machine detected inter-office irregularity (MDII) trunk group measurements.
`PART25`	= ISDN user part (ISUP) office totals.

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PART26 = DS1 measurements.
PART27 = Static proportionate bidding (PB) measurements.
PART28 = OSPS international credit card validation (ICCV) measures by foreign database.
PART29 = OSPS line applications for consumers (LAC) signaling measures.
PART30 = OSPS originating line number screening (OLNS) measures.
PART36 = Signaling link performance.
PART37 = ATM quality of service.
PART38 = ATM quality of service for PSU to PSU connection.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA NOT AVAILABLE = The request was made during the automatic preparation of the report.
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.
- DATA NOT COLLECTED = Data for this part was not collected.
- FEATURE NOT AVAILABLE = The feature required to process the request is not present in the switch.

PF = Printout follows. The request has been received and is being processed. If the report is available, it will follow. Otherwise, an error message will follow.

5. REFERENCES

Input Message(s):

```
ALW:PLNT24
INH:PLNT24
OP:ST-PLNT24
```

Output Message(s):

```
OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
```

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```
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNT24-PT19
OP:PLNT24-PT21
OP:PLNT24-PT22
OP:PLNT24-PT23
OP:PLNT24-PT24
OP:PLNT24-PT25
OP:PLNT24-PT26
OP:PLNT24-PT27
OP:PLNT24-PT28
OP:PLNT24-PT29
OP:PLNT24-PT30
OP:PLNT24-PT36
OP:PLNT24-PT37
OP:PLNT24-PT38
OP:ST-PLNT24
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:PLNTHR

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests the last complete hourly plant report.

2. FORMAT

```
OP:PLNTHR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `DATA NOT AVAILABLE AT THIS TIME` = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

`PF` = Printout follows. Followed by the OP:PLNTHR output message.

5. REFERENCES

Input Message(s):

```
ALW:PLNTHR
INH:PLNTHR
```

Output Message(s):

```
OP:PLNTHR-PT01A
OP:PLNTHR-PT02A
OP:PLNTHR-PT02B
OP:PLNTHR-PT03
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:PLNTMO

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the monthly plant report be obtained at a time other than the regularly scheduled time. Reports requested at times other than the standard report times will only contain totals accumulated since the previous automatic report.

2. FORMAT

```
OP:PLNTMO;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- DATA NOT AVAILABLE AT THIS TIME` = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

`PF` = Printout follows. The request has been received and is being processed. If the monthly plant report OP:PLNTMO is available, it will follow. Otherwise, an error message will follow.

5. REFERENCES

Output Message(s):

```
OP:PLNTMO-PT01A
OP:PLNTMO-PT01B
OP:PLNTMO-PT02A
OP:PLNTMO-PT02B
OP:PLNTMO-PT03
OP:PLNTMO-PT04
OP:PLNTMO-PT05
OP:PLNTMO-PT06
OP:PLNTMO-PT07
OP:PLNTMO-PT08
OP:PLNTMO-PT09
OP:PLNTMO-PT10
OP:PLNTMO-PT10B
OP:PLNTMO-PT11
OP:PLNTMO-PT12
OP:PLNTMO-PT13
```

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```
OP:PLNTMO-PT14
OP:PLNTMO-PT15
OP:PLNTMO-PT16
OP:PLNTMO-PT17
OP:PLNTMO-PT18
OP:PLNTMO-PT19
OP:PLNTMO-PT21
OP:PLNTMO-PT22
OP:PLNTMO-PT23
OP:PLNTMO-PT25
OP:PLNTMO-PT28
OP:PLNTMO-PT29
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:PM-PP-MCTSI

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the output of the port processor's (PP's) postmortem reports saved in the specified module controller time slot interchanger (MCTSI). The postmortem report will be locked in memory for 72hours, or until it is manually released by the RLS:PM-PP-MCTSI input message. When memory is unlocked, the next autonomous packet switching unit protocol handler (PSUPH) or packet interface (PI) initialization will have its postmortem report saved in the PI of the in-service MCTSI.

The PI's postmortem save area in an out-of-service MCTSI will not be updated when it is returned to service. The manual release of a postmortem report from a single MCTSI allows the save areas to hold different reports. Thus, a time stamp will be supplied in the postmortem report to help determine the time sequence of initialization actions.

2. FORMAT

```
OP:POSTMORT,PP,MCTSI=a-b;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number.

`b` = MCTSI side number (0 or 1).

4. SYSTEM RESPONSE

`IP` = In progress. The message was accepted and the output of the postmortem reports is in progress.

`NG` = No good. The message was not accepted because the SM is isolated or the MCTSI is out of service.

`NO` = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

5. REFERENCES

Input Message(s):

```
CHG:PRNTMODE
OP:HISTORY
```

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```
RLS:PM-PP-MCTSI
```

Output Message(s):

```
INIT:SM-LVL-SUM
REPT:PM-MCTSI
REPT:PM-PSUPH
```

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OP:PM-SM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a copy of the specified postmortems from the specified switching module (SM). The postmortem also prints automatically 5 minutes after a recovery unless requested by this input request or released by the RLS:POSTMORT input request. If no specific postmortem type is requested, then by default the online SPP, EVENT, ESCAL, RCVY, and DCF postmortems are dumped.

Execution of this input request will cause any of the output messages listed under REFERENCES.

2. FORMAT

```
OP:POSTMORT,SM=a[,OFL][,SPP][,EVENT][,ESCAL][,RCVY][,DCF];
```

3. EXPLANATION OF MESSAGE

`DCF` = Execute defensive check failure postmortem dump.

`ESCAL` = Execute escalation count postmortem dump.

`EVENT` = Execute event history postmortem dump.

`OFL` = Execute a dump of the offline postmortem. If this option is specified alone, offline SPP, event, and escalation histories will be dumped. When OFL is specified, the RCVY or DCF options are not allowed. Default is to dump the online postmortem.

`RCVY` = Execute recovery output reports postmortem dump.

`SPP` = Execute SPP history postmortem dump.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request was not accepted because an illegal SM number was specified. May also include:

- `OFL AND DCF OR RCVY NOT ALLOWED` = The combination of options OFL with DCF or RCVY is not a legal combination.
- `OFFLINE DATA NOT AVAILABLE` = The data which resides on the offline side of the switch module has not been set up by SM offline verification. This data only gets set up after an offline pump with the verification option set. An illegal SM number was specified.

`PF` = Printout follows.

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5. REFERENCES

Input Message(s):

```
RLS:POSTMORT
```

Output Message(s):

```
INIT:SM-LVL-SUM
REPT:DATA
REPT:EVENTHIST
REPT:SM-HWLVL
REPT:STACK-FRAME
REPT:STACK-TRACE
```

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OP:PM

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of active protocol monitoring (PM) sessions.

2. FORMAT

```
OP:PM{,SES=a|ALL}[,PRINT];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = All active protocol monitoring sessions.

`PRINT` = Print on the receive-only printer (ROP).

Note: If the request is initiated from the MCC or a STLWS, the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

`a` = The protocol monitoring session (SES) specified in the EXC:PM output message.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized, or was not acceptable.

`PF` = Printout follows. The request has been accepted and is in progress. Followed by the OP:PM output message(s).

`RL` = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

```
EXC:PM
STP:PM
```

Output Message(s):

```
EXC:PM
```

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```
OP:PM
STP:PM
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-190-130 *Local Area Services Features*
235-900-301 *ISDN Basic Rate Interface Specification*

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OP:PMCCS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a list of active CCS protocol monitoring (PM) sessions and provides status of the PM processors.

2. FORMAT

```
OP:PMCCS{,SES=a|ALL}[,PRINT][,VERBOSE];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = All active CCS protocol monitoring sessions.

`PRINT` = Print on the receive-only printer (ROP).
Note: If the request is initiated from the MCC or a STLWS, the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

`VERBOSE` = Print additional information regarding the status of the processors involved in the PM session. Lists the SCREENING, RECORDING, ABORTED or OVERLOADED processors for the PM session.

`a` = The protocol monitoring session (SES) specified in the EXC:PMCCS output message.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized, or was not acceptable.

`PF` = Printout follows. The request has been accepted and is in progress. Followed by the OP:PMCCS output message(s).

`RL` = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

```
EXC:PMCCS
STP:PMCCS
```

Output Message(s):

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```
EXC:PMCCS
OP:PMCCS
STP:PMCCS
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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OP:PMCR

Software Release: 5E15 and later
Command Group: MEAS
Application: 5,3B
Type: Input

1. PURPOSE

Requests the various plant measurements common reports, detailing system performance statistics. By default, the data collected for the previous hour is reported every hour and the data collected for the previous day is reported at midnight.

2. FORMAT

```
[1]    OP:PMCR,TYPE=STAT[,HOURLY|,DAILY=a|,NOHOURLY|,NODAILY];

[2]    OP:PMCR,TYPE=RET,INTVL=b,FORM=c;

[3]    OP:PMCR,TYPE=DEM,FORM=c;
```

3. EXPLANATION OF MESSAGE

Each of the three formats (for STAT, RET, and DEM) has its own distinct purpose.

DAILY	= Set the option for daily reports to be output once per day.
DEM	= Demand report. Outputs a report of up-to-the-hour data collected for the next daily report (as determined by the STAT format, default is midnight). Demand reports should not be attempted until at least one hour after a valid scheduled daily report has been generated.
HOURLY	= Set the option for hourly reports to be output every hour. Use only with STAT form.
NODAILY	= Sets the option for daily reports not to be output. Use only with STAT format.
NOHOURLY	= Sets the option for hourly reports not to be output. Use only with STAT format.
RET	= Retained report. Outputs a report of the previous daily or hourly data, depending on the interval entered. Requesting a daily retained report should not be attempted until after a scheduled daily report has been generated. Requesting an hourly retained report should not be attempted until after a scheduled hourly report has been generated.
STAT	= Status report. Indicates whether the hourly and/or daily scheduled reports will be output. This form is used to turn the scheduled reports on or off. This form is also used to enable/disable printing of the daily/hourly reports or to change the hour when the daily report is output.
a	= The hour 'a', 0-23, where the default is 0 (midnight). Use only with STAT format.
b	= Report interval. 'b' values are HOURLY or DAILY. Used only with RET format, HOURLY outputs the data from the previous hour; DAILY from the previous day.
c	= Report form. 'c' values are 1 or 2, where form 1 outputs system and equipment performance and 2 outputs more detailed equipment performance.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the REPT:OP-PMCR output message.

5. REFERENCES

Output Message(s):

```
OP:PMCR-ERROR
REPT:OP-PMCR
```

OP:POSTMORT-A

Software Release: 5E15 - 5E16(1)
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a copy of the postmortem for the digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC), the integrated digital carrier unit (IDCU), the integrated service line unit common controller (ISLUCC) or the transmission multiplexer (TMUX). The postmortem also prints automatically five minutes after a recovery unless requested sooner by this input message.

2. FORMAT

```
OP:POSTMORT[,HISTORY],{DNUSCC=a-b-c|IDCU=a-d-e|ISLUCC=a-f-c|TMUX=a-b-g-h};
```

3. EXPLANATION OF MESSAGE

`HISTORY` = Log the events of the DNUSCC, IDCU, ISLUCC or TMUX postmortem.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because the SM is isolated or the equipment does not exist.

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`PF` = Printout follows. The OP:PM-DNUSCC for DNU-S output, OP:PM-IDCU for IDCU output, OP:PM-ISLUCC for ISLUCC output or OP:PM-TMUX for TMUX output message follows.

5. REFERENCES

Output Message(s):

```
OP:PM-DNUSCC
OP:PM-IDCU
OP:PM-ISLUCC
OP:PM-TMUX
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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OP:POSTMORT-B

Software Release: 5E16(2) and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a copy of the postmortem for the digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC), the integrated digital carrier unit (IDCU), the integrated service line unit common controller (ISLUCC), the transmission multiplexer (TMUX) or the Optical Facility Interface (OFI). The postmortem also prints automatically five minutes after a recovery unless requested sooner by this input message.

2. FORMAT

```
OP:POSTMORT[,HISTORY],{DNUSCC=a-b-c|IDCU=a-d-e|ISLUCC=a-f-c|OFI=a-i-j-k|. . .
 . . .TMUX=a-b-g-h};
```

3. EXPLANATION OF MESSAGE

`HISTORY` = Print event history from the specified DNUSCC, IDCU, ISLUCC, or TMUX postmortem.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Optical interface unit (OIU) number.

`j` = OIU protection group number.

`k` = OFI side number.

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4. SYSTEM RESPONSE

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist.

PF = Printout follows. The OP:PM-DNUSCC for DNU-S output, OP:PM-IDCU for IDCU output, OP:PM-ISLUCC for ISLUCC output or OP:PM-TMUX for TMUX output message follows.

5. REFERENCES

Output Message(s):

```
OP:PM-DNUSCC
OP:PM-IDCU
OP:PM-ISLUCC
OP:PM-TMUX
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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OP:POSTMORT-CMP

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a copy of the postmortem for the communication module processor (CMP). The postmortem also prints automatically five minutes after a recovery unless requested by this input request or released by the RLS:POSTMORT input request.

2. FORMAT

```
OP:POSTMORT,CMP=a,{PRIM|MATE}[,EVENT][,ESCAL][,RCVY][,DCF];
```

3. EXPLANATION OF MESSAGE

DCF	= Execute defensive check failure postmortem dump.
ESCAL	= Execute escalation count postmortem dump.
EVENT	= Execute event history postmortem dump.
MATE	= Mate CMP.
PRIM	= Primary CMP.
RCVY	= Execute recovery postmortem dump.
a	= CMP number. This parameter must be a single number (not a range).

4. SYSTEM RESPONSE

NG	= No good. The request was not accepted because an illegal CMP number was specified.
PF	= Printout follows. Execution of this input request will cause any of the output messages listed under REFERENCES.

5. REFERENCES

Input Message(s):

```
RLS:POSTMORT
```

Output Message(s):

```
INIT:CMP
REPT:DATA
```

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```
REPT:STACK-FRAME
REPT:STACK-TRACE
```

Other Manual(s):
235-105-250 *System Recovery Procedures*

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OP:PSC

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests output of the current day and previous day automatic protection switch count for optical interface unit (OIU) protection groups. The command can requests counts for all OIU protection groups across the entire switch, all OIU protection groups on a switching module (SM), and all protection groups on a single OIU.

Format 1 is used to request protection switch counts for all OIU protection groups across the entire switch.

Format 2 is used to request protection switch counts for all OIU protection groups on an SM or all protection groups on a single OIU.

2. FORMAT

```
[1]    OP:PSC,ALL;
       ___________________________________________________________

[2]    OP:PSC,{SM=a|OIU=a-b};
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The input contained an illegal specification.

`PF` = Printout follows. The request has been accepted and the OP:PSC output message follows.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

`OP:FAC`

Output Message(s):

`OP:FAC`
`OP:PSC`

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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OP:PSLT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Report the status of inhibited or allowed for the periodic signaling link test (PSLT).

2. FORMAT

```
OP:CCS,PSLT,SM=a,[SET=b[MEMBER=c]];
```

3. EXPLANATION OF MESSAGE

`a` = CCS global switching module (GSM) number.

`b` = Link set number (SET). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Link set member (MEMBER). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:CCS,PSLT output message. Report the status (inhibited or allowed) of the periodic signaling link test (PSLT) for a signaling link(s).

5. REFERENCES

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

Input Appendix(es):

`APP:RANGES`

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OP:PTRC-A

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE.

Format 1 is used for digital networking unit - synchronous optical network (SONET) (DNU-S).

Format 2 is used for optical interface unit (OIU).

2. FORMAT

```
[1]    OP:PTRC,STSFAC=a-b-c-d-e;
       ____________________________________________________________

[2]    OP:PTRC,STS1=a-f-g-h-i;
       ____________________________________________________________

[3]    OP:PTRC,STS3C=a-f-g-h-i;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET terminating equipment facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = STS-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input

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Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The input contained an illegal specification.

`PF` = Printout follows. The request has been accepted and the OP:PTRC output message follows.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

`OP:PTRC`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):
20.12 DIGITAL NETWORKING UNIT SONET FOR STE AND STS (SM2000)

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OP:PTRC-B

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE.

Format 1 is used for digital networking unit - synchronous optical network (SONET) (DNU-S).

Format 2 and 3 are used for optical interface unit (OIU).

2. FORMAT

```
[1]    OP:PTRC,STSFAC=a-b-c-d-e;
       ____________________________________________________________

[2]    OP:PTRC,STS1=a-f-g-h-i;
       ____________________________________________________________

[3]    OP:PTRC,STS3C=a-f-g-j-k;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET terminating equipment facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` =OIU number (0-7). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Protection group (PG) number (0-9). Refer to the APP :RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = OC3 number (1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` =STS-1 number (1-3). Refer to the APP:RANGES appendix in the Appendixes section of the

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Input Messages manual.

`j` = Optical carrier level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Synchronous transport signal level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The input contained an illegal specification.

`PF` = Printout follows. The request has been accepted and the OP:PTRC output message follows.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

`OP:PTRC`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):
20.12 DIGITAL NETWORKING UNIT SONET FOR STE AND STS (SM2000)

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OP:PTRC-STSFAC

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE. This request is used for digital networking unit - synchronous optical network (SONET) (DNU-S).

2. FORMAT

```
OP:PTRC,STSFAC=a-b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET terminating equipment facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The input contained an illegal specification.

`PF` = Printout follows. The request has been accepted and the OP:PTRC-STSFAC output message follows.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

```
OP:PTRC-STSFAC
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

RC/V View(s):
20.12 DIGITAL NETWORKING UNIT SONET FOR STE AND STS (SM2000)

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54. OP:Q

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OP:QLPSTS

Software Release: 5E21(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current quad-link packet switch (QLPS) time slot equipage based upon each QLPS time slot multiplexed switch link (QTMSLNK). The use of this message is primarily for the conversion of an SM-2000 to use a CORE700 processor circuit pack or verifying the QLPS has sufficient resources to support the growth of additional QLPS endpoint hardware: SM-2000s, QLPS protocol handlers (QPH) or general QLPS protocol handlers (GQPH). The QLPS endpoints are a SM-2000 which requires:

- Either 14 (non-CORE700 processor) or 32 (CORE700 processor) time slots per network.
- A QPH requiring between 4 and 12 time slots.
- A GQPH requiring 28 time slots.

Based upon the QLPS endpoint being grown in to the switch or conversion, there must be enough QLPS time slots available in one of the four QTMSLNKs for each network or the growth procedure will fail at or near the end of the procedure.

2. FORMAT

```
OP:QLPSTS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- VALID FOR CM3 ONLY` = Explanation of reason.

`PF` = Followed by the OP:QLPSTS output message.

`RL` = Retry later.

5. REFERENCES

Output Message(s):

`OP:QLPSTS`

Other Manual(s):
SIG-C-WU-100 *Lucent Growth/Degrowth/Conversion Handbook*

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OP:QNETSTAT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of quad-link packet switch (QLPS) pipes (QPIPEs), QLPS communication links (QLNKs), and inter-switching module QLNKs (ISMQLNKs) and, optionally, the supporting communication module (CM) hardware.

Format 1 requests a report of the status of all QPIPEs, QLNKs, and ISMQLNKs meeting specified criteria. If no criteria are specified, the status of all out-of-service (OOS) QPIPEs, QLNKs, and ISMQLNKs for both networks will be reported unless the outage is due to a parent unit (family-of-equipment). Output can be restricted (or expanded) by specifying the QLPS network, source and/or destination endpoints, and state qualifiers. If both source and destination are specified, the report will include the status of QPIPEs at both the source and destination, and QLNKs or ISMQLNKs between them. If either source or destination is specified (but not both), the report will include the status of QPIPEs at the specified endpoint, and QLNKs and/or ISMQLNKs to all other endpoints.

Format 2 requests a report of the status of a specific QPIPE, QLNK, or ISMQLNK and the identity and status of all of it's supporting CM hardware.

2. FORMAT

```
[1]    OP:QNETSTAT[,QLPSNW=a][,SRCSM=b|SRCQGP=c-d][,DESTSM=e]
       [,ALL|OOS|NOFE];

[2]    OP:QNETSTAT,{MHQPIPE=f-g-h-i|QGPQPIPE=j-k-h-i|QLNK=f-g-h-i-k-j
       |ISMQLNK=f-g-h-i-l-m};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = Report status of all equipped QPIPEs, QLNKs, and ISMQLNKs.

`NOFE` = Report status of OOS QPIPEs, QLNKs, and ISMQLNKs that are not OOS family-of-equipment (FE). This is the default option.

`SRCSM` = Source SM-2000. Restricts status output to MH QPIPEs, QLNKs, and ISMQLNKs associated with the source SM-2000 and, if specified, a destination SM-2000.

`SRCQGP` = Source QGP. Restricts status output to QPIPEs and QLNKs associated with the source QGP and, if specified, a destination SM-2000.

`a` = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Source SM-2000 number. Refer to the APP:RANGES appendix in the Appendixes section of

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the Input Messages manual.

c = Message switch (MSGS) side of source QGP. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Source QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Destination SM-2000 number. Restricts status output to QPIPEs, QLNKs, and ISMQLNKs associated with the destination SM-2000 and, if specified, a source QGP or SM-2000. If used with the SRCSM option, the report will include the status of MH QPIPEs for both SM-2000s and the ISMQLNKs between them. If used with the SRCQGP option, the report will include the MH QPIPEs for the destination SM-2000, the QGP QPIPEs for the source QGP, and the QLNKs between the source QGP and destination SM-2000. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Source SM-2000 number associated with the specified MH QPIPE, QLNK, or ISMQLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Source SM-2000's active module controller time slot interchanger (MCTSI) side. The active MCTSI side is reported for informational purposes as part of the MH QPIPE, QLNK, and ISMQLNK identification in output messages. Regardless of the MCTSI side specified, the current active MCTSI will be indicated in the OP QNETSTAT output message.

h = QLPS network associated with the specified QPIPE, QLNK, or ISMQLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Office network and timing complex (ONTC) side associated with the specified QPIPE, QLNK, or ISMQLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = MSGS side associated with the specified QGP QPIPE or QLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = QGP number associated with the specified QGP QPIPE or QLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Destination SM-2000 number associated with the specified ISMQLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Destination SM-2000's active MCTSI side. Regardless of the MCTSI side specified, the current active MCTSI will be indicated in the OP QNETSTAT output message.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA BASE READ FAILURE = A database access to determine whether a specified SM was equipped failed. An assert will fire.
- DESTINATION NOT AN SM2000 = DESTSM is not a SM-2000.
- DYNAMIC DATA READ FAILURE = The dynamic state of a specified unit could not be

obtained from the PCD (peripheral configuration database).
- `INVALID MSGS SIDE` = The MSGS side (as input with the SRCQGP option) is out of range.
- `SM UNEQUIPPED` = SM is not equipped.
- `SOURCE CANNOT BE BOTH QGP AND SM` = Both the SRCSM and SRCQGP options were input.
- `SOURCE NOT AN SM2000` = SRCSM is not a SM-2000.
- `UNIT UNEQUIPPED` = There are no equipped QLPSs in the office, the specified SRCQGP is not equipped, or the specified QPIPE/QLNK/ISMQLNK is not equipped.

`PF` = Printout follows. Followed by the OP:QNETSTAT output message.

`RL` = Retry later. May also include:
- `PREVIOUS REQUEST IN PROGRESS` = Terminal process already exists for a previous request.

`?E` = An error occurred while processing the message, but the problem cannot be attributed to a specific field. May also include:
- `CANNOT CREATE TERMINAL PROCESS` = Attempt to create the terminal process failed. An assert will fire.
- `COMMUNICATION ERROR` = Deferred maintenance administrator and monitor (DMAM) was unable to communicate with the terminal process.

5. REFERENCES

Output Message(s):

`OP:QNETSTAT`

Input Appendix(es):

`APP:CM-IM-REASON`
`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance Procedures*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

115 (CM SUMMARY)
1209 (ONTC 0 & 1)
1240/50 (MSGS 0/1 SUMMARY)
1241/51 (MSGS 0/1 COMMUNITIES 0-1, 8-9)
1380/1 (QLPS NETWORK 0/1 STATUS)

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55. OP:R

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OP:RCACCESS

Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

Requests verification of permissions for recent change (RC) access from a specified terminal (TTY) associated with the 3B processor, a specified login id (LOGIN) assigned on the administrative services module (ASM), an Authority Management Login (AUTHLOGIN), or a Recent Change Security Group (RCSECGRP).

2. FORMAT

```
OP:RCACCESS,{LOGIN="a"|TTY="b"|AUTHLOGIN="c"|RCSECGRP="d"};
```

3. EXPLANATION OF MESSAGE

`a` = Name of a login id assigned on the ASM in the office. Because the login ids may have lower case characters in them it is necessary to surround each id with a pair of quotation marks.

`b` = Name of a terminal associated with the 3B in the office. Because the terminal names have lower case characters in them it is necessary to surround each name with a pair of quotation marks.

`c` = Name of a login assigned through Authority Management in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks. This parameter is associated with a secured feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

`d` = Name of the Recent Change Security Group in the office. Because the RC security group may have lower case characters in them, it is necessary to surround each group name with a pair of quotation marks. This parameter is associated with a secured feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

4. SYSTEM RESPONSE

`NG` = No good. Invalid terminal or login designation.

`PF` = Printout follows. The request has been received. A printout and a response message will follow.

5. REFERENCES

Input Message(s):

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```
SET:RCACCESS
```

Output Message(s):

```
OP:RCACCESS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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OP:RCDLY

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the current telephone activations status of recent change delayed messages (RCDMs) be displayed.

2. FORMAT

```
OP:RCDLY;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the REPT:RCDLY output message.

5. REFERENCES

Input Message(s):

```
ALW:RCDLY
INH:RCDLY
```

Output Message(s):

```
REPT:RCDLY
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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OP:RCHIST

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests the status of a previously entered REPT:RCHIST input message. The input message asked for a report on the history of batch recent changes entered into the delayed release clerk files, or a specific clerk name that was previously entered.

2. FORMAT

```
OP:RCHIST[,CLERK=a];
```

3. EXPLANATION OF MESSAGE

a	= Clerk name, consisting of no more than eight ASCII characters excluding blanks and special characters.

4. SYSTEM RESPONSE

PF	= Printout follows. The request was accepted. Followed by the OP:RCHIST output message.

5. REFERENCES

Input Message(s):

```
REPT:RCHIST
STP:RCHIST
```

Output Message(s):

```
OP:RCHIST
STP:RCHIST
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*

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OP:RCRLS

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests the status of a previously entered EXC:RCRLS input message.

2. FORMAT

```
OP:RCRLS[,CLERK=a];
```

3. EXPLANATION OF MESSAGE

a	= Clerk name, consisting of no more than eight ASCII characters excluding blanks and special characters.

4. SYSTEM RESPONSE

PF	= Printout follows. The request was accepted. Followed by the OP:RCRLS output message.

5. REFERENCES

Input Message(s):

```
EXC:RCRLS
STP:RCRLS
```

Output Message(s):

```
EXC:RCRLS
OP:RCRLS
STP:RCRLS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*

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OP:RCRMV

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the status of a previously entered EXC:RCRMV input message be output. This request removes selected recent changes previously entered into the delayed release clerk file.

2. FORMAT

```
OP:RCRMV[,CLERK=a];
```

3. EXPLANATION OF MESSAGE

`a` = Clerk name, consisting of no more than eight ASCII characters, excluding blanks and special characters.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. Followed by the OP:RCRMV output message.

5. REFERENCES

Input Message(s):

```
EXC:RCRMV
STP:RCRMV
```

Output Message(s):

```
EXC:RCRMV
OP:RCRMV
STP:RCRMV
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*

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OP:RCSECGRP

Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

If the recent change (RC) access for a specified terminal associated with the 3B processor, a specified login ID assigned on the administrative services module (ASM), or an authority management login (AUTHLOGIN), this message requests the recent change security Group (RCSECGRP) that it is assigned to. If a RCSECGRP is specified, this message request a list of TTYs, logins and AUTHLOGINS that are assigned to the RCSECGRP. If LIST is specified, this message requests a list of RCSECGRP's in the office. This message is associated with a secured feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

```
OP:RCSECGRP,{LOGIN="a"|TTY="b"|AUTHLOGIN="c"|SECGRP="d"|LIST};
```

3. EXPLANATION OF MESSAGE

`a` = Name of a login ID assigned on the ASM in the office. Because the login IDs may have lower case characters in them it is necessary to surround each ID with a pair of quotation marks.

`b` = Name of a terminal associated with the 3B in the office. Because the terminal names have lower case characters in them it is necessary to surround each name with a pair of quotation marks.

`c` = Name of a login assigned through authority management in the office. Because the login IDs may have lower case characters in them, it is necessary to surround each ID with a pair of quotation marks.

`d` = Name of the recent change security group in the office. Because the RC security group may have lower case characters in them, it is necessary to surround each group name with a pair of quotation marks.

4. SYSTEM RESPONSE

`NG` = No good. Invalid terminal or login designation.

`PF` = Printout follows. The request has been received. A printout and a response message will follow.

NOTE: OP:RCSECGRP sometimes can be delayed due to the additional data transfer.

5. REFERENCES

Input Message(s):

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```
SET:RCSECGRP
SET:RCACCESS
```

Output Message(s):

```
OP:RCSECGRP
SET:RCACCESS
```

Other Manual(s): Where 'x' is the release-specific version of the document.
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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OP:RCSTAT-SM

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests the number of recent changes applied in the administrative module (AM), one or more communication module processors (CMPs), and/or one or more switching modules (SMs) since the previous backup of the office-dependent data (ODD). It also reports the percentage of space used by these recent changes in the AM, CMP, SM, and the redundant log files.

2. FORMAT

```
OP:RCSTAT,{SM=a[&&b]|CMP=c[&&d]|AM|SM=a[&&b],CMP=c[&&d]|SM=a[&&b],AM
|CMP=c[&&d],AM|SM=a[&&b],CMP=c[&&d],AM};
```

3. EXPLANATION OF MESSAGE

`AM` = Report the number of recent changes logged in the AM.

`a` = SM number, or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = CMP number, or the lower limit of a range of CMP numbers.

`d` = Upper limit of a range of CMP numbers.

4. SYSTEM RESPONSE

`NG` = No good. The input message is not valid.

`PF` = Printout follows. Followed by the OP:RCSTAT output message.

5. REFERENCES

Output Message(s):

`OP:RCSTAT`

Other Manual(s):
235-105-250 *System Recovery Procedures*

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OP:RCUSER

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests a report on the active recent change (RC) process that is accessing the office-dependent data (ODD) and the terminal (TTY), the clerk ID in the case of batch RC, associated with the process.

2. FORMAT

```
OP:RCUSER;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. Followed by the OP:RCUSER output message.

5. REFERENCES

Output Message(s):

`OP:RCUSER`

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OP:RDTA-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a report of a specific remote digital test access (RDTA) session or a summary of all currently active RDTA sessions. The information displayed as a result of this request represents the data that is populated in the RLRDTA_DATA relation which resides in the administrative module (AM).

Information corresponding to one specific RDTA session can be accessed by either providing the session number (returned in the EXC:RDTA output message after the connection was setup) or the port under test (PUT). The session number may also be found by executing the OP:RDTA input message to receive information on all sessions (SES=ALL option).

2. FORMAT

```
OP:RDTA,{a|SES={u|ALL}}[,CH=v];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Report information pertaining to all active RDTA sessions.

SES = Session.

a = Port identification. Valid value(s):

```
BST=b-c
DEN=d-e-f-g
DN=h
ILEN=d-i-j-k
LCEN=d-l-m-n
LCKEN=d-l-f1-w-x
MLHG=o-p
INEN=d-y-j-k

NEN=d-y-z-a1-b1-c1-d1-e1
OAPO=b
OPT=b-c
PKTDN=h
RTRS=q-r
TKGMN=s-t
PLTEN=d-g1-h1-i1-j1
```

b = Operator Service Center number of the BST. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number of the BST. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility (1-48).

`h` = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with digital subscriber lines (DSLs).

`i` = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`u` = Session number of the RDTA session for which corresponding RDTA information is requested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Channel type (valid only for DN and LCEN port identification). Valid value(s):
- `B1` = Channel B1.
- `B2` = Channel B2.
- `D` = D-channel (default).

`w` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`x` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`y` = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`z` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`a`[1] = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`b`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`c`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`d`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`e`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`f`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`g`[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`h`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`i`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`j`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

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4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by an OP:RDTA output message.

`RL` = Retry later. Valid value(s):

- `FAILED TO CREATE PROCESS` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `TOO MANY PROCESSES ACTIVE` = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
EXC:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

Output Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-190-104 *ISDN Feature Description*

235-900-341 *National ISDN Basic Rate Interface Specification*

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OP:RDTA-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a report of a specific remote digital test access (RDTA) session or a summary of all currently active RDTA sessions. The information displayed as a result of this request represents the data that is populated in the RLRDTA_DATA relation which resides in the administrative module (AM).

Information corresponding to one specific RDTA session can be accessed by either providing the session number (returned in the EXC:RDTA output message after the connection was setup) or the port under test (PUT). The session number may also be found by executing the OP:RDTA input message to receive information on all sessions.

2. FORMAT

```
OP:RDTA,{a|SES={u|ALL}}[,CH=v];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = Report information pertaining to all active RDTA sessions.

`SES` = Session.

`a` = Port identification. Valid value(s):

```
BST=b-c
DEN=d-e-f-g
DN=h
ILEN=d-i-j-k
INEN=d-y-j-k
LCEN=d-l-m-n
LCKEN=d-l-f[1]-w-x
MLHG=o-p
NEN=d-y-z-a[1]-b[1]-c[1]-d[1]-e[1]
OAPO=b
OPT=b-c
PKTDN=h
PLTEN=d-g[1]-h[1]-i[1]-j[1]
RTRS=q-r
TKGMN=s-t
OIUEN=d-k[1]-l[1]-a[1]-b[1]-c[1]-d[1]-e[1]
```

`b` = Operator service center number of the BST. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`c` = Relative position number of the BST. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility (1-48).

`h` = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with digital subscriber lines (DSLs).

`i` = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

u = Session number of the RDTA session for which corresponding RDTA information is requested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Channel type (valid only for DN and LCEN port identification). Valid value(s):
- B1 = Channel B1.
- B2 = Channel B2.
- D = D-channel (default).

w = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

x = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

y = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

z = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

a[1] = SONET termination equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

b[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

c[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

d[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

e[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

f[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

g[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

h[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

i[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

j[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

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`k`[1] = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

`l`[1] = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by an OP:RDTA output message.

`RL` = Retry later. May also include:
- `FAILED TO CREATE PROCESS` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `TOO MANY PROCESSES ACTIVE` = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
EXC:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

Output Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-190-104 *ISDN Feature Description*
235-900-341 *National ISDN Basic Rate Interface Specification*

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OP:REG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of the error registers of the specified hardware unit be printed. This is used only for T1 error registers on digital facility interfaces (DFIs).

Format 1 is used to request the contents of registers on a digital facility interface (DFI), a remote digital facility interface (RDFI), or a host digital facility interface (HDFI). Format 2 is used only with a *SLC®* digital facility interface (SDFI). Format 3 is used only with a remote integrated services line unit (RISLU) digital facility interface (DFIH).

2. FORMAT

```
[1]    OP:REG,{DFI|RDFI|HDFI}=a-b-c;

[2]    OP:REG,SDFI=a-d-e;

[3]    OP:REG,DFIH=a-f-g;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. (for SDFI only).

`e` = SDFI number (for SDFI only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = RISLU DLTU number (for RISLU only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = DFIH number (for RISLU only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request was not accepted because:
- An illegal SM number was specified.

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- An illegal DLTU number was specified.
- An illegal DCLU number was specified.
- An illegal DFI number was specified.

`PF` = Printout follows. Followed by the OP:REG output message.

`RL` = Retry later. Communication lost to the specified SM.

5. REFERENCES

Output Message(s):

```
INIT:REG
OP:REG
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

OP:RELSPACE

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests a report of the size of a relation residing on an operational processor or range of processors.

The size of the relation refers to all memory allocated to the relation, including head pages, data pages and intermediate data pages. This message does not report the number of tuples in the relation, but only the amount of memory allocated to the relation at the time of request.

2. FORMAT

```
OP:RELSPACE,REL=a,PCRNO=b[&&c];
```

3. EXPLANATION OF MESSAGE

`a` = Relation name. The relation name should be in capital letters and match the relation name dictionary entry exactly as shown in Translations Data Manual or Dynamic Data Manual. The relation name should be enclosed in double quotes.

`b` = Processor number, or lower limit of a range of processor numbers.

`c` = Upper limit of a range of processor numbers.

4. SYSTEM RESPONSE

`NG` = No good. The input request is not valid.

`PF` = Printout follows. Request was accepted and is followed by the OP:RELSPACE output message.

`RL` = Retry later. The request was acceptable but the AM terminal process could not be created at this time. This means the switch is probably in trouble. Try the input message when the switch returns to an operable state.

5. REFERENCES

Output Message(s):

`OP:RELSPACE`

Other Manual(s):

Where 'x' is the release-specific version of the document.

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235-600-10x *Translations Data*
235-600-20x *Dynamic Data*

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OP:REX-CM-SM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the summary of one or all valid test types of routine exercise (REX) for the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in an SM.

2. FORMAT

```
OP:REX[,CM|,SM=a][,b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = REX test type whose summary is to be printed (default is to print the summary of all valid test types for the module). Valid value(s):

- `DGN` = Print the summary of diagnostic tests.
- `ELS` = Print the summary of electronic loop segregation tests. This is not a valid test type for the CM.
- `FAB` = Print the summary of fabric exerciser tests of grids. This is not a valid test type for the CM.

Note: If neither CM nor SM is specified, the hardware test results in the CM and all of the SMs are retrieved.

4. SYSTEM RESPONSE

`NG` = No good. The request was not a valid entry.

`PF` = Printout follows. Request is valid and output message will follow.

`RL` = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Output Message(s):

```
OP:REX-DGN-FAB
OP:REX-ELS
```

MCC Display Page(s):

1280 [REX STATUS (SM)]

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1290 [REX STATUS (CM)]

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OP:REXINH

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests the status of routine exercises (REX) in a specific module. Applications may add additional hardware units which may be reported by this input message.

Format 1 requests a report of the inhibit status of hardware in the communications module (CM) and all operational switching modules (SMs).

Format 2 requests a list of all the administrative module (AM) hardware units that have REX temporarily inhibited by means of the INH:REX or INH:DMQ input messages. Requests AM and application hardware communities that have REX permanently inhibited by a field in the equipment configuration database (ECD). The specific deferred maintenance queue (DMQ) inhibits may be verified by using the OP:DMQ input message.

Format 3 requests a report of the SM or SMs for which routine exercises are currently inhibited by means of the INH:REX-AM-SM or INH:REX-CM-SM input message. This request shows whether the test types for a module have been inhibited or allowed, and if allowed, if that test is in progress (IP).

Format 4 requests a report of the CM for which routine exercises are currently inhibited by means of the INH:REX-CM-SM input message. This request shows whether the test types for a module have been inhibited or allowed, and if allowed, if that test is IP. By using the UNITS option of the input message requests a report of the units which are currently inhibited for REX in a CM.

Format 5 requests a report of the units which are currently inhibited for REX in the SM.

2. FORMAT

```
[1]    OP:REXINH;

[2]    OP:REXINH:AM[,PERM];

[3]    OP:REXINH,SM=a[&&b];

[4]    OP:REXINH,CM[,UNITS];

[5]    OP:REXINH,SM=a,UNITS;
```

3. EXPLANATION OF MESSAGE

`PERM` = Requests a list of permanent REX inhibits.

`a` = SM number or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

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4. SYSTEM RESPONSE

`OK` = Good. Request is valid and accepted.

`PF` = Printout follows. Formats 1, 3, 4 and 5 are followed by the OP:REXINH-SLB output message. Format 2 is followed by the OP:REXINH output message.

`RL` = Retry later. Cannot read ECD unit control block (UCB). Unit that the information was requested on is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
ALW:DMQ
ALW:REX
ALW:REX-CM-SM
INH:DMQ
INH:REX
INH:REX-AM-SM
INH:REX-CM-SM
OP:DMQ
```

Output Message(s):

```
OP:DMQ
OP:REXINH
OP:REXINH-SLB
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-210 *Routine Operations and Maintenance*
235-600-30x *ECD/SG Data Base*

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OP:RG1AUD

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Provides the ability to obtain status of a CNI ring 1 audit.

2. FORMAT

```
OP:RG1AUD
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = The request was received and will be processed. A printout will follow giving either a termination report or termination report plus the results of the work initiated by the input message.

5. REFERENCES

Input Message(s):

```
EXC:RG1AUD
STOP:RG1AUD
```

Output Message(s):

```
EXC:RG1AUD
OP:RG1AUD
REPT:RG1AUD
STOP:RG1AUD
```

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OP:RING

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status information (Format 1) or generic information (Format 2) about a particular node, a group of nodes, or all nodes on a particular group.

2. FORMAT

```
[1]    OP:RING[,RPCNa=0|,LNa=b|,GRP=a][:SUM|:DETD[=ALL]];
```

```
[2]    OP:RING,{RPCNa=0|LNa=b}:GEN;
```

3. EXPLANATION OF MESSAGE

`ALL` = Report detailed status of the ring. All IUNs are printed.

`DETD` = Report detailed status of the ring. Only equipped interprocess message switch (IMS) user nodes (IUNs) are printed.

`GEN` = Report generic information.

`SUM` = Report summary status information on the ring. This is the default value.

`a` = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Position of the node in the RN group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Output Message(s):

`OP:RING`

Input Appendix(es):

`APP:RANGES`

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Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

MCC Display Page(s):
118 CNI RING STATUS
1520 RING NODE STATUS

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OP:ROP

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a read only printer (ROP).

2. FORMAT

```
OP:ROP=a:INFO;
```

3. EXPLANATION OF MESSAGE

a	= Member number.

4. SYSTEM RESPONSE

PF	Printout follows. Followed by an OP:ROP output message.

5. REFERENCES

Output Message(s):

OP:ROP

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OP:RPC-SM

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the status of the routine port conditioning (RPC) for a specified SM.

2. FORMAT

```
OP:RPC,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the OP:RPC-SM output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

`OP:PRC-SM`

Input Appendix(es):

`APP:RANGES`

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OP:RPCU

Software Release: 5E15 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests a list of alarmed radio port controller units (RPCUs) and their alarm levels. The alarm level is based on the number of digital subscriber lines (DSLs) that are out-of-service (OOS) for that RPCU. The STP:RPCU input message can be used to stop this report.

2. FORMAT

```
OP:RPCU,ALARM[,SM=a[&&c]];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number, or the lower limit of a range of SMs.

`b` = Upper limit of a range of SMs.

Note: When a SM is not specified, the message defaults to all SMs. Data is only printed for those SMs that are assigned and have RPCUs in an alarm condition. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual for valid SM values.

4. SYSTEM RESPONSE

`NG` = The input message is not valid.

`PF` = Printout follows. Followed by the OP:RPCU output message.

`RL` = Retry later. May also include:
- `TOO MANY PROCESSES ACTIVE` The request has been denied, probably due to system load.
- `FAILED TO CREATE PROCESS` A system error has occurred in executing the OP:RPCU input message.

5. REFERENCES

Input Message(s):

`STP:RPCU`

Output Message(s):

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```
OP:RPCU
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

107 (CIRCUIT LIMIT)

Other Manual(s):
230-701-100 *Air Extension[SM] Reference Manual*
230-701-120 *Air Extension[SM] User's Guide*

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OP:RT-ALM-ALL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a report of the current off-normal states and alarms for integrated TR008/TR303 remote terminals (RT) in the office, either as a summary or a separate report for each RT. TR008 RTs can be the *SLC®* 96, Series 5 Feature Package B, and Enhanced B. TR303 RTs can be the Series 5 feature package 303G.

2. FORMAT

```
OP:RT,{ALM[,NOPRINT]|ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Print a status message (output message OP:RT-SID) for each integrated TR008/TR303 RT in the office, whether it has active alarms or not.

`ALM` = Print a summary (output message OP:RT-ALARM) of the active alarms for the off-normal RTs in the office.

`NOPRINT` = The NOPRINT option is only valid with OP:RT-ALM. This option inhibits the "NO ACTIVE ALARMS" response when there are no active alarms for the RTs in the office.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status. May also include:
- `NO RT'S FOUND` = There are no integrated TR008/TR303 RTs in the office data base.

`PF` = Printout follows. The request was accepted and is followed by OP:RT-ALL, OP:RT-SID-SNA or the OP:RT-ALARM output message.

`RL` = Retry later. May also include:
- `CANNOT CREATE TERMINAL PROCESS` = The request cannot be executed now due to unavailable system resources necessary for creating a terminal process.

5. REFERENCES

Input Message(s):

```
OP:RT-SID-LRT
```

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Output Message(s):

```
OP:RT-ALARM
OP:RT-ALL
OP:RT-SID-SNA
```

MCC Display Page(s):

1150,y,x (SM X - DCLU Y)
13zy,x (SM X - DCLU Y RT Z)
1870,y,x (SM X - IDCU Y FACILITY)
1880,y,zz,x (SM X - IDCU Y RT ZZ)
1511,x (DNU-S FACILITY MAINTENANCE)
1512,x (DNU-S FACILITY APPLICATION)
1660,xxxx (TR303 REMOTE TERMINAL)

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OP:RT-CHAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that information describing the configuration of the embedded operations channel (EOC) and timeslot management channel (TMC) for the specified remote terminal (RT) be displayed. The output will identify the EOC and TMC channels, the associated terminal endpoint identifier (TEI), and its multi-frame status.

This output is useful in identifying the current configuration of the EOC and TMC.

2. FORMAT

```
OP:RT,CHAN,{SID[=a] | IDCURT=b-c-d | DNUSRT=b-e-d};
```

3. EXPLANATION OF MESSAGE

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Switching module (SM) number.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Local RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status. May also include:
- `NO RT's FOUND` = The message format is valid, but there are no integrated RTs in the office database.
- `UNIT DOES NOT EXIST` = The request has been denied. The message format is valid, but the requested RT does not exist in the database.

`PF` = Printout follows. Followed by the OP:RT-CHAN output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Output Message(s):

OP:RT-CHAN

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

188xyy (IDCU REMOTE TERMINAL)

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OP:RT-FACOFFN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the value of the switching module (SM) status indicator (SET or CLEARED). Specifically, if the status is SET, the SM status will be updated to "RT PLS" (remote terminal (RT) protection line switch) when a T1 facility goes on protection, or to "CKT OOS" (circuit out-of-service) when a T1 facility goes OOS.

2. FORMAT

```
OP:RT,FACOFFN;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF	= Printout follows. The request was accepted. Followed by the OP:RT-FAC-OFF output message.
RL	= Retry later. The system failed to read a data base global parameter.

5. REFERENCES

Input Message(s):

```
SET:RT-FACOFFN
CLR:RT-FACOFFN
```

Output Message(s):

```
OP:RT-FAC-OFF
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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OP:RT-PROV

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a status message of the provisionable elements of a remote terminal (RT) terminating on an IDCU or DNUS. The message also reports the current provisioning report inhibit status for the RT and, if any, the preemptable client currently being served by provisioning.

This request should not be used when the PROVISION RT field in RC/V View 18.15 shows N (NO). The *5ESS®* switch is then not responsible for RT provisioning and does not maintain the data reported as a result of this request.

2. FORMAT

```
OP:RT,PROV,{SID=a|{IDCURT|DNUS}=b-c-d};
```

3. EXPLANATION OF MESSAGE

`a` = Site identification (SID) number of the RT. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Local RT (LRT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO TR303 RT found` = The request has been denied. The message is valid, but the specified RT is not a TR303 RT.
- `UNIT DOES NOT EXIST` = The request has been denied. The message is valid, but the requested RT does not exist in the database.

`PF` = Printout follows. Followed by the OP:RT-PROV output message.

`RL` = Retry later. May also include:
- `CANNOT CREATE TERMINAL PROCESS` = The request cannot be executed now due to unavailable system resources for creating a terminal process.

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5. REFERENCES

Input Message(s):

```
EXC:RT-PROV
```

Output Message(s):

```
EXC:RT-PROV
OP:RT-PROV
REPT:RT-PROV
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

RC/V View(s):

18.15 (REMOTE TERMINAL)

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OP:RT-REPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC). This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
OP:RT,REPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the OP:RT-REPT output message.

5. REFERENCES

Input Message(s):

```
ALW:RT-REPT
INH:RT-REPT
```

Output Message(s):

```
OP:RT-REPT
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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OP:RT-SID-LRT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a report of the current off-normal states and alarms for one or more integrated TR008/TR303 remote terminals (RT) in the office. TR008 RTs can be the *SLC®* 96, Series 5 Feature Package B, and Enhanced B. TR303 RTs can be the Series 5 feature package 303G.

2. FORMAT

```
OP:RT,{SID[=a[&&b]]|DCLURT=c-d-e|IDCURT=c-d-e|DNUSRT=c-d-e};
```

3. EXPLANATION OF MESSAGE

`a` = Site identification (SID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper range of the SID number when requesting status of more than one RT. When the SID number is not entered, status messages will be output for each integrated TR008/TR303 RT in the office. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital carrier line unit (DCLU) or integrated digital carrier unit (IDCU) number or digital networking unit - synchronous optical network (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Local RT (LRT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status. May also include:
- `NO RT'S FOUND` = There are no integrated TR008/TR303 RTs in the office database.
- `UNIT DOES NOT EXIST` = The requested RT does not exist in the database.

`PF` = Printout follows. The request was accepted and is followed by the OP:RT-SID-LRT output message.

`RL` = Retry later. May also include:
- `CANNOT CREATE TERMINAL PROCESS` = The request cannot be executed now due to unavailable system resources necessary for creating a terminal process.

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5. REFERENCES

Input Message(s):

```
OP:RT-ALM-ALL
```

Output Message(s):

```
OP:RT-ALARM
OP:RT-ALL
OP:RT-SID-LRT
OP:RT-SID-SNA
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1150,x (DCLU)
13z0,x (DCLU Remote Terminal)
1870,y,x (IDCU FACILITY)
1880,x,yy (IDCU REMOTE TERMINAL)
1511,x (DNU-S FACILITY MAINTENANCE)
1512,x (DNU-S FACILITY APPLICATION)
1660,xxxx (TR303 REMOTE TERMINAL)

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OP:RTCD

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the global billing switching module (SM) number and the status of the real time call detail (RTCD) office option.

2. FORMAT

```
OP:RTCD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. An OP:RTCD output message will follow in response to the request.

5. REFERENCES

Output Message(s):

`OP:RTCD`

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OP:RTITRC

Software Release: 5E15 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests output of a complete routing]pattern based on input information. Input may consist of a starting routing index (RTI) (Format 1) or a range of digits plus a switching module (SM) number, a trunk group (TG), and optional member number (Format 2) or a range of digits plus a digit analysis selector (DAS) and SM number (Format 3).

The routing information extracted consists of the RTI, the TG, and the next RTI (NRTI). For each RTI or for each valid digit string, up to ten RTI, TG, and NRTI patterns will be output. The information derived is output to a *UNIX*® RTR operating system file.

2. FORMAT

```
[1]    OP:RTITRC,RTI=a;

[2]    OP:RTITRC,SM=f,{TKGMN=b-c|TG=b},START=d,END=e;

[3]    OP:RTITRC,SM=f,DAS=g,START=d,END=e;
```

3. EXPLANATION OF MESSAGE

`a` = Starting routing index of routing pattern to be verified.

`b` = Incoming trunk group number of the trunk whose translations are to be verified.

`c` = Member of the trunk group whose translations are to be verified. If not specified, the first assigned member from 0 - 9 is used. If there is no member 0 - 9, the input message fails.

`d` = The lower limit of a range of digits to be used to verify the routing pattern (0-9999999999). These represent the dialed digits in the case of a line call or the incoming digits in the case of a trunk call. This value may consist of one to ten digits.

If the starting digit string is longer than the ending digit string, the ending digit string will be expanded with trailing zeroes up to the length of the starting digit string.

`e` = The upper limit of a range of digits to be used to verify the routing pattern (0-9999999999). These represent the dialed digits in the case of a line call or the incoming digits in the case of a trunk call. This value may consist of one to ten digits. The upper limit of the range must be equal to or higher than the lower limit. Trailing zeroes are optional.

`f` = SM number to be used to verify the routing pattern.

`g` = Digit analysis selector (DAS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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`NG` = No good. Valid value(s):
- `INVALID DIGIT RANGE`
- `INVALID INPUT MESSAGE`

`PF` = Printout follows. A message will be sent to the read-only printer (ROP) giving the status of the input message and any output files associated with it. The OP:DIGTRC output will be sent to a *UNIX*® RTR file. Any errors encountered will be sent to an error log file.

`RL` = Retry later. Valid value(s):
- `CANNOT ATTACH AM ODD` = The RTITRC process was unable to access the administrative module (AM) office-dependent data (ODD).
- `CANNOT CREATE ERROR FILE` = An error log file could not be created under /updtmp. Remove unneeded files from that directory to leave space for a new file.
- `CANNOT CREATE OUTPUT FILE` = An output file could not be created under /updtmp. Remove unneeded files from that directory to leave space for a new file.
- `UNABLE TO OPEN LINK TO SMs` = The RTITRC process was unable to open a communications link to the SMs in order to access SM ODD.

5. REFERENCES

Input Message(s):

```
OP:DIGTRC
DUMP:F-ALL
```

Output Message(s):

```
REPT:OP-RTITRC
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-220 *Corrective Maintenance*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-600-11x *Translations Data*

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OP:RTRACK

Software Release: 5E15 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Requests that the current status of the ring tracker mode be reported.

2. FORMAT

```
OP:RTRACK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. The request was not accepted; reason will follow.

`PF` = Printout follows. Followed by an OP:RTRACK output message.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
ALW:RTRACK
EXC:RTRACK
INH:RTRACK
STOP:RTRACK
```

Output Message(s):

```
ALW RTRACK
EXC RTRACK
INH RTRACK
OP RTRACK
REPT RING CFR
STOP RTRACK
```

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OP:RUTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an output of the status of all the break points in the specified node. The user is informed about the result of this operation.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

```
OP:RUTIL=a-b,AP;
```

3. EXPLANATION OF MESSAGE

AP	= Attached processor.
a	= Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the OP:RUTIL output message.

5. REFERENCES

Input Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTILFLAG
WHEN:RUTIL
```

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Output Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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OP:RUTILFLAG

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an output of the status of the specified break point in the specified common network interface (CNI) ring node. The user is informed about the result of this operation.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

```
OP:RUTILFLAG=a-b,AP:BP=c;
```

3. EXPLANATION OF MESSAGE

`AP` = Attached processor.

`BP` = Break point.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Specific break point to be output. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:RUTILFLAG output message.

5. REFERENCES

Input Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
```

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```
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
WHEN:RUTIL
```

Output Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
REPT:RUTIL
WHEN:RUTIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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56. OP:S

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OP:S7ACK

Software Release: 5E15 and later
Command Group: TRK
Application: 5
Type: Input

1. PURPOSE

Requests the status of the ISUP/BICC abnormal acknowledgement output message. This input message queries to see if the printing of the REPT:ABNORMAL-AT output message is allowed or inhibited for the office.

2. FORMAT

```
OP:S7ACK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:S7ACK output message.

5. REFERENCES

Input Message(s):

```
INH:S7ACK
ALW:S7ACK
```

Output Message(s):

```
INH:S7ACK
ALW:S7ACK
REPT:ABNORMAL-AT
```

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OP:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the current status of all observations.

All active observation scopes and observation types are printed.

2. FORMAT

```
OP:S7RPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `FEATURE NOT AVAILABLE` = The input message cannot be used in this office. The office should be upgraded.
- `S7RPT NOT ALLOWED` = The ALW:S7RPT input message must be issued for OP:S7RPT input message to have any affect.
- `HARDWARE NOT OPERATIONAL` = CCS is not available in the office.

`PF` = Printout follows. Followed by the OP:S7RPT output message.

5. REFERENCES

Input Message(s):

```
ALW:S7RPT
EXC:S7RPT
STP:S7RPT
INH:S7RPT
```

Output Message(s):

```
OP:S7RPT
```

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OP:S7XCHK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Determines whether the PCI7GR cross check running is inhibited or allowed for the entire office.

2. FORMAT

```
OP:S7XCHK[,TYPE=a];
```

3. EXPLANATION OF MESSAGE

`a` = Demand PCI7GR cross check. LID value(s):
`PCI7GR`

4. SYSTEM RESPONSE

`OK` = The message has been accepted. Valid value(s):
- `PCI7GR CROSS CHECK INHIBITED` = pci7gr cross check is inhibited.
- `PCI7GR CROSS CHECK ALLOWED` = pci7gr cross check is allowed.

5. REFERENCES

Input Message(s):

```
ALW:S7XCHK
EXC:S7XCHK
INH:S7XCHK
STP:S7XCHK
```

Output Message(s):

```
EXC:S7XCHK
```

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OP:SCC

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a switching control center (SCC).

2. FORMAT

```
OP:SCC=a:INFO;
```

3. EXPLANATION OF MESSAGE

a	= Member number of device.

4. SYSTEM RESPONSE

PF	Printout follows. Followed by an OP:SCC output message.

5. REFERENCES

Output Message(s):

OP:SCC

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OP:SCF

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of all stuck coin failures since the last time the periodic list was printed.

Printing the stuck coin failure report manually, by using this input message, will not clear the stuck coin failure list. Only the periodic report (REPT:SCF) will clear the list.

2. FORMAT

```
OP:SCF;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the OP:SCF output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

```
OP:SCF
REPT:SCF
```

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OP:SCHD

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests displays of information about all the reports available in the measurement output control (MOC) schedule table (SCHD).

2. FORMAT

```
OP:SCHD[:DEST=a];
```

3. EXPLANATION OF MESSAGE

`a` = Destination class. If a destination is requested, the output message will be sent to the specified output class. Default is to direct the output message to the input device. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:SCHD output message.

5. REFERENCES

Input Message(s):

`OP:OUTCLS`

Output Message(s):

`OP:SCHD`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:SCSD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests the inhibit status and the state of scanner and signal distributor (SCSD) scan points. This can be a logical group of scan points or all the scan points on an SCSD. Scan points can be identified by physical location using the SCSD unit number or by the logical group name. If a logical group is duplexed, the states of both logical groups (dupid 0 and dupid 1) are output.

2. FORMAT

```
OP:SCSD:{UNIT=a|GRPN="b"};
```

3. EXPLANATION OF MESSAGE

`a` = Member number of the SCSD unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Name of the logical SCSD group. Valid value(s):

```
FANACU0
FANACU1
PDF0
PRSWCU0
PRSWCU1
PRSWDFC0
PRSWDFC1
PRSWIOP0
PRSWIOP1
PRSWMHD0
PRSWMHD1
PTSWMCR
PTSWROP
```

4. SYSTEM RESPONSE

`NG` = No good. SCSD administrator process is not active; no communication with SCSD points is possible.

`PF` = Printout follows. Followed by the OP:SCSD output message.

`RL` = Retry later.

5. REFERENCES

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Input Message(s):

```
ALW:SCSD
INH:SCSD
```

Output Message(s):

```
OP:SCSD
REPT:SCSDC
```

Input Appendix(es):

```
APP:RANGES
```

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OP:SDL

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a synchronous data link (SDL).

2. FORMAT

```
OP:SDL=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = Member number.

4. SYSTEM RESPONSE

`PF` Printout follows. Followed by an OP:SDL output message.

5. REFERENCES

Output Message(s):

`OP:SDL`

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OP:SDLC

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a synchronous data link controller (SDLC).

2. FORMAT

```
OP:SDLC=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = Member number.

4. SYSTEM RESPONSE

`PF` Printout follows. Followed by an OP:SDLC output message.

5. REFERENCES

Output Message(s):

`OP:SDLC`

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OP:SILC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Request a list of all trunk groups assigned to selective incoming load control (SILC) treatment, SILC treatment inhibit, and SILC activation state.

2. FORMAT

```
OP:SILC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:SILC output message.

`RL` = Retry later. May also include:
- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ASGN:SILC
CLR:SILC
```

Output Message(s):

```
OP:SILC
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

109 (OVERLOAD)
130 (NM EXCEPTION)

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OP:SIPDMP

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests to dump the session initiation protocol (SIP) per error counts stored in SIP protocol handler (SIPPH). If PCRGRP is requested, the serving protocol handler (PH) in the processor group (PCRGRP) will get dumped. With this message you may request the first 20 non zero SIP error counts or request the 256 long SIP error counts raw dump.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

2. FORMAT

```
OP:SIPDMP,{PCRGRP=a-b | PSUPH=a-c-d-e},[RAW];
```

3. EXPLANATION OF MESSAGE

`RAW` = Raw dump request.

`a` = SM number.

`b` = SIP PH processor group number on SIP global switching module (GSM).

`c` = PSU number.

`d` = Shelf number.

`e` = SIP PH physical number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `IMPROPER PH STATE` = The PH is not in its proper state.
- `INVALID INPUT DATA` = The request is invalid.
- `NO SERVING SIP PH` = Requested SIP PH processor group number has no serving SIP PH.
- `NOT A SIP GSM` = Requested switching module number is not a SIP GSM.
- `PCRGRP UNEQUIPPED` = Requested SIP PH processor group number is not provisioned on the specified GSM.
- `PSUPH OOS` = Requested SIP PH is out of service.
- `PSUPH UNEQUIPPED` = Requested SIP PH number is not provisioned in the office.

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`PF` = Followed by the OP:SIPDMP output message.

`RL` = Retry later. May also include:
- `GSM UNAVAILABLE` = The requested GSM is not ready.
- `OSSENDMSG FAILURE` = The operating system could not send the request to the appropriate process.

5. REFERENCES

Input Message(s):

`CLR:SIPDMP`

Output Message(s):

`OP:SIPDMP`
`CLR:SIPDMP`

Input Appendix(es):

`APP:RANGES`

RC/V View(s):

5.80	SIP-T GLOBAL SM
33.16	SIP-T PROCESSOR GROUP

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OP:SL-A

Software Release: 5E15 only
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Queries the digital network unit - synchronous optical network (SONET) (DNU-S) for the expected and received signal labels for synchronous transport signal facility (STSFAC). Queries the DNU-S for the expected and received signal labels and virtual tributary (VT) group size for VT 1.5 (VT1.5) facility (VT1FAC).

2. FORMAT

```
OP:SL,a;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Facility identification. Valid value(s): `STSFAC=b-c-d-e-f` `VT1FAC=b-c-d-e-f-g-h`

`b` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized, or was not acceptable.
`PF` = Printout follows. The request has been accepted and is in progress. Followed by the OP:SL output message(s).
`RL` = Retry later. The system is busy.

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5. REFERENCES

Output Message(s):

```
OP:SL
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

OP:SL-B

Software Release: 5E16(1) only
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Queries the digital network unit - synchronous optical network (SONET) (DNU-S) for the expected and received signal labels for synchronous transport signal facility (STSFAC). Queries the DNU-S for the expected and received signal labels and virtual tributary (VT) group size for virtual tributary 1.5 (VT1.5) facility (VT1FAC). This command is also used to query the SONET (OIU-NAR) for the expected and received signal labels for synchronous transport signal facility (STS-1) and VT1.5.

2. FORMAT

```
OP:SL,a;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Facility identification. Valid value(s):

```
STS1=b-i-j-k-f
STS3C=b-i1-j1-k1-f
STSFAC=b-c-d-e-f
VT15=b-i-j-k-f-g-h
VT1FAC=b-c-d-e-f-g-h
```

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`i` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or was not acceptable.

`PF` = Printout follows. The request has been accepted and is in progress. Followed by the OP:SL output message(s).

`RL` = Retry later. The system is busy.

5. REFERENCES

Output Message(s):

```
OP:SL
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

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OP:SL-C

Software Release: 5E16(2) and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Queries the digital network unit - synchronous optical network (SONET) (DNU-S) for the expected and received signal labels for synchronous transport signal facility (STSFAC). Queries the DNU-S for the expected and received signal labels and virtual tributary (VT) group size for virtual tributary 1.5 (VT1.5) facility (VT1FAC). This command is also used to query the optical interface unit (OIU) for the expected and received signal labels for synchronous transport signal facility (STS-1 or STS-3c) and VT1.5.

2. FORMAT

```
OP:SL,a;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Facility identification. Valid value(s):

```
STS1=b-i-j-k-f
STS3C=b-i-j-l-m
STSFAC=b-c-d-e-f
VT15=b-i-j-k-f-g-h
VT1FAC=b-c-d-e-f-g-h
```

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`i` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

`l` = Optical carrier level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

`m` = Synchronous transport signal level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized or was not acceptable.

`PF` = Printout follows. The request has been accepted and is in progress. Followed by the OP:SL output message(s).

`RL` = Retry later. The system is busy.

5. REFERENCES

Output Message(s):

```
OP:SL
REPT:FAC
```

Input Appendix(es):

```
APP:RANGES
```

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OP:SLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests status information for the signaling links (SLKs).

2. FORMAT

```
OP:SLK={ALL|a-b[-c-d]}[:[STATE=e[-f]][,TYPE=g]]
[:[ABNORMAL][,CODES][,FIX][,ROUTING][,RAW]][:DATA,DEST=h];
```

3. EXPLANATION OF MESSAGE

`ABNORMAL` = Output a detailed report including links abnormal conditions. This is a shortened form of the RAW option. If both options are selected only the RAW option will be honored.

`ALL` = Report status of all links.

`CODES` = Output a detailed report including the link failure codes. This is a shortened form of the RAW option. CODES is intended to be used by itself, therefore if it appears on the input message line with any other of these options, the other options will be ignored.

`FIX` = Output a detailed report including the link configuration data.

`RAW` = Output a detailed report of the dynamic link information.

`ROUTING` = Output a detailed report including some routing information.

`a` = Group number or lower limit of a range of group numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number or lower limit of a range of member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Upper limit of group numbers for a range of SLKs.

`d` = Upper limit of member numbers for a range of SLKs.

Note: By use of the following fields, the link report may be limited to links in the specified major and/or minor state, and/or of a given link type.

`e` = Either a major or a minor state name. Valid value(s):

- `AVL` = Available.
- `GROW` = Grow state, link also unavailable.
- `IS` = In service.
- `MOOS` = Available manual out-of-service.
- `NOTIS` = Output all links in the major state of available whose minor state is NOT

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in-service.
OOS = Available out-of-service.
TEST = Test state, link also unavailable.
UNA = Unavailable.
UNE = Unequipped.

f = Minor state. Valid value(s):
GROW = Unavailable grow.
IS = In-service.
MOOS = Available manual OOS.
OOS = Available OOS.
STBY = Stand by.
TEST = Unavailable test.

g = Type of link. Valid value(s):
A = A links
D7 = Domestic system 7 links
DLN = Direct link node
E = E links
F = F links

h = Destination class. This is the numeric value associated with message class desired. A cross reference can be found in output appendix (APP:MSGCLS), or with the use of the OP:OUTCLS input message. If the DEST option is not used, the output returns to the input device. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:SLK output message.

5. REFERENCES

Input Message(s):

OP:OUTCLS

Output Message(s):

OP:SLK

Input Appendix(es):

APP:RANGES

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MCC Display Page(s):

118 (CNI RING STATUS)
1521 (SIGNALING LINK SUMMARY)
1522 (SIGNALING LINK)

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OP:SMR

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests a common channel interoffice signaling (CCIS) measurement report.

2. FORMAT

```
[1]    OP:SMR=a[:DEST=b];

[2]    OP:SMR=c[:LINK=d-e[-f-g]][:DEST=b];
```

3. EXPLANATION OF MESSAGE

a = Name of the requested report. Valid value(s):

A15MPR15
A30MPR30
AMPRCDAY
AMPRHR
AMPRLDAY
ASEPR15
ASEPR30
ASEPRCDAY
ASEPRHR
ASEPRLDAY
ASNPR1CDAY
ASNPR1HR
ASNPR1LDAY
ASNPR215
ASNPR230
ASNPR2CDAY
ASNPR2HR
ASNPR2LDAY
NFDISK
NFDISKEX
NFLPM
NFLPMEX
RINGEXLPM

b = Destination class. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Name of the flexible report requested. (NFDISK, NFDISKEX, NFLPM, NFLPMEX)

d = Starting link group number. Refer to the APP:RANGES appendix in the Appendixes section

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of the Input Messages manual.

`e` = Starting link member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Ending link group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Ending link member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:SMR output message.

5. REFERENCES

Output Message(s):

```
OP:SMR
OP:SMR-A15MPR15
OP:SMR-A30MPR30
OP:SMR-SEPR
OP:SMR-SNPR1
OP:SMR-SNPR2
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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OP:SMST

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests information on switching modules (SMs) assigned to terminals using switching module system test (SMST) routing.

2. FORMAT

```
OP:SMST[,SM=a[&&b]];
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

Note: When SM is not specified, defaults to all SMs. All SMs are checked to see if they are assigned. Resulting output prints only those that are assigned.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:SMST output message.

`RL` = Retry later. May also include:
- `UNABLE TO SERVICE REQUEST` = The receiving process is not running. Manually invoke HMimst process and try again.

5. REFERENCES

Input Message(s):

```
RLS:SMST
RTE:SMST
```

Output Message(s):

```
OP:SMST
```

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OP:SNAT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the current view of the common channel interoffice signaling (CCIS) network administration time (SNAT).

2. FORMAT

```
OP:SNAT[:DEST=a];
```

3. EXPLANATION OF MESSAGE

`a` = Destination class. The 'destination number to output device' cross reference can be found by use of the OP:OUTCLS input message. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:SNAT output message.

5. REFERENCES

Input Message(s):

`OP:OUTCLS`

Output Message(s):

`OP:SNAT`

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OP:SS7

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the output of signaling system 7 (SS7) trunk data matching the following specified characteristics. These include:

- The entire office, includes a summary of the ISUP equippage.
- A specific origination point code (OPC).
- A specific destination point code (DPC).
- A specific DPC and OPC combination.
- A DPC and a specific, range or all circuit identification codes (CICs), with an optional SM parameter.
- An OPC and a specific, range or all CICs, with an optional SM.
- A DPC, OPC and a specific, range or all CICs, with an optional SM parameter.
- An SS7 trunk group, with an optional SM parameter.
- An SS7 trunk group and a specific or range of all trunk group members, with an optional SM parameter.
- The global switching module (GSM) supported in the office.
- A specific DPC for an specific GSM.
- A specific DPC and a specific, range or all CIC, for an specific GSM, with an optional SM parameter.
- A specific, range or all CIC for an specific GSM.
- The common network interface (CNI) supported in the office.
- A specific DPC associated with the CNI.
- A specific DPC and a specific, range, or all CIC, associated with the CNI, with an optional SM parameter.
- A specific, range or all CIC associated with the CNI.
- A summary of the ISUP equippage in the office.

Output will include the SS7 trunk group numbers, OPC, and DPC for formats [1] through [17]. Output will include the SS7 trunk group number(s), SS7 trunk member number(s), OPC(s), DPC(s), CIC(s) for all other inputs, except format [18].

Output for the summary report will include the total number of ISUP trunks equipped, number equipped per platform, and the number of ISUP inter/intra module trunks (IMT).

Only one OP:SS7 request may be processed by the system at any moment; additional requests will be denied.

WARNING: Requesting this message may cause an enormous amount of data to be printed on the ROP. The use of any format could cause a degradation in switch service depending upon the number and size of SS7 trunk groups.

The input message, STP:SS7, can be used to halt the printing of this input message should system operation be impacted by this message.

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2. FORMAT

```
[1]    OP:SS7,OFFICE;

[2]    OP:SS7,DPC=a;

[3]    OP:SS7,OPC=b;

[4]    OP:SS7,OPC=b,DPC=a;

[5]    OP:SS7,DPC=a,CIC{=c[&&d]|,ALL}[,SM=h];

[6]    OP:SS7,OPC=b,CIC{=c[&&d]|,ALL}[,SM=h];

[7]    OP:SS7,DPC=a,OPC=b,CIC{=c[&&d]|,ALL}[,SM=h];

[8]    OP:SS7,TG=e[,SM=h];

[9]    OP:SS7,TKGMN=e-f[&&g][,SM=h];

[10]   OP:SS7,GSM=i;

[11]   OP:SS7,GSM=i,DPC=a;

[12]   OP:SS7,GSM=i,DPC=a,CIC{=c[&&d]|,ALL}[,SM=h];

[13]   OP:SS7,GSM=i,CIC{=c[&&d]|,ALL}[,SM=h];

[14]   OP:SS7,CNI;

[15]   OP:SS7,CNI,DPC=a;

[16]   OP:SS7,CNI,DPC=a,CIC{=c[&&d]|,ALL}[,SM=h];

[17]   OP:SS7,CNI,CIC{=c[&&d]|,ALL}[,SM=h];

[18]   OP:SS7,SUM;
```

3. EXPLANATION OF MESSAGE

`ALL` = Search for SS7 trunk group members using a range of all possible CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a` = Destination point code (DPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. In multi-OPC offices where OPCs are in both ATT/UNITEL and *ANSI*® networks, the OPC is required. In offices with both CNI and PSU, CNI, OPC, or GSM must be specified.

`b` = Origination point code (OPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. Alias point codes are allowed for CNI.

`c` = CIC or the lower limit of a range of CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d` = The upper limit of a range of CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = SS7 trunk group (TG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = SS7 trunk group member number (TKGMN) or the lower limit of a range of SS7 trunk group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = The upper limit of a range of SS7 trunk group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = SM number. Search for trunks is restricted to specified SM. This option is allowed only for OPC/DPC/CIC, TG, or TKGMN requests.

`i` = GSM number.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and an OP:SS7 output message will follow.

`RL` = Retry later. May also include:

- `FAILED TO CREATE PROCESS` = The process that would service the request could not be created, or did not receive the request, probably due to system load.
- `REQUEST ALREADY IN PROGRESS` = An OP:SS7 request is already running. Only one request is allowed to run at a time.
- `TOO MANY PROCESSES ACTIVE` = A process to service the request cannot be created because the maximum number of active maintenance processes has been reached.

5. REFERENCES

Input Message(s):

`STP:SS7`

Output Message(s):

`OP:SS7`
`STP:SS7`

Input Appendix(es):

`APP:RANGES`
`APP:POINT-CODE`

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Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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OP:SSTR

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all service selective trunk reservation (SSTR) controls that are currently assigned, or lists the SSTR controls for a single trunk group.

2. FORMAT

```
OP:SSTR[,TG=a];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:SSTR output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

```
OP:TR
ALW:SSTR
ASGN:SSTR
CLR:SSTR
INH:SSTR
OP:SSTR
SET:SSTROVRD
CLR:SSTROVRD
```

Output Message(s):

```
ALW:SSTR
OP:SSTR
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

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MCC Display Page(s):

130 (NM EXCEPTION)

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OP:ST-APX

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the communication status between the *5ESS®* Digital Cellular Switch and the *Autoplex®* Executive Cellular Processor be queried.

2. FORMAT

```
OP:STATUS,APX;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- FEATURE IS NOT ACTIVE` = *Autoplex®* application not loaded in this office.

`PF` = Printout Follows. Followed by the OP:ST-APX output message.

5. REFERENCES

Output Message(s):

```
OP:ST-APX
```

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OP:ST-ATMPVC

Software Release: 5E18(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the user traffic counts of a protocol handler for asynchronous transfer mode (ATM) version 2 (PHA2) ATM link and all active permanent virtual circuits (PVC) on the PHA2 ATM link.

Included in the output is the average and peak ATM user cell transmit and receive cell counts for the entire link along with the number of dropped and errored cells received.

The output also includes the total number of transmitted and received ATM user cells on an individual ATM PVC with an indication of whether there was active traffic at the output reporting time.

The output also includes the total number of one second intervals for which all of the reported data is based on.

The STBY option can be used to report all of the above information from the PHA2 with the standby channel. By default the above information is only reported from the PHA2 with the active channel.

2. FORMAT

```
OP:STATUS,ATMPVC,PSALNK=a-b-c[,FARSN=d][,FARCA=e][,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` Print traffic counts from the PHA2 with the standby channel.

`a` = Switching module (SM) number of the target packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK).

`b` = PSU number of the target PSALNK.

`c` = Link number of the target PSALNK.

`d` = Far subnetwork ID.

`e` = Far PSU community address.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-ATMPVC output message.

`NG` = No good. May also include:

- `PSALNK UNEQUIPPED` = The request has been denied. The message is valid but the specified PSALNK was not detected in the current equipage.
- `MUST BE A PHA2 PSALNK` = The request has been denied. The message is valid but the specified PSALNK is not hosted by a PHA2.
- `FARCA MUST NOT EQUAL PSUCA WHEN FARSN IS NOT ENTERED` = The request has

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been denied. The message is valid but the far office community address (CA) must not equal the near PSU CA when no far office subnetwork (FARSN) is specified.

- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.

`RL` = Retry later. May also include:

- `SM UNAVAILABLE` = The request has been denied. The message is valid but the SM is not available.

5. REFERENCES

Output Message(s):

`OP:ST-ATMPVC`

Input Appendix(es):

`APP:RANGES`

OP:ST-AUD-CMP-A

Software Release: 5E15 only
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of a specified audit, all audits, or all inhibited audits for a particular communication module processor (CMP) or range of CMPs.

2. FORMAT

```
OP:STATUS[=a],AUD[=b],CMP=c[,{PRIM|MATE}];
```

3. EXPLANATION OF MESSAGE

`a` = The audits status. Valid value(s):
- `ALL` = The status of all audits is printed.
- `INH` = The status of only the inhibited audits prints. This is the default value.

`b` = Audit ID for an application audit. The default value is all audits and the routine audit cycle.

`c` = Communications module processor number (such as, 0). The active (PRIM) CMP is assumed unless MATE is specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `AUDIT NOT AVAILABLE IN CMP` = The request has been denied because the audit specified in the '`b`' variable does not exist in the CMP specified.
- `INVALID CMP` = The specified CMP does not exist.

`PF` = Printout follows. Followed by the OP:ST-AUD-CMP output message.

5. REFERENCES

Output Message(s):

```
OP:ST-AUD-CMP
```

Other Manual(s):
235-600-400 *Audits*

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OP:ST-AUD-CMP-B

Software Release: 5E16(1) and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of a specified audit, all audits, or all inhibited audits for a particular communication module processor (CMP) or range of CMPs.

2. FORMAT

```
OP:STATUS[=a],AUD[=b],CMP=c[,d];
```

3. EXPLANATION OF MESSAGE

`a` = The audits status. Valid value(s):
- `ALL` = The status of all audits is printed.
- `INH` = The status of only the inhibited audits prints. This is the default value.
- `LIST` = Lists all audits which can be requested individually.

`b` = Audit ID for an application audit. Refer to the APP:AUDITS appendix in the Appendixes section of the Output Messages manual for valid audit IDs. The default value is all audits and the routine audit cycle.

`c` = Communications module processor number (such as, 0). The active (PRIM) CMP is assumed unless MATE is specified.

`d` = CMP type. Valid value(s):
`MATE`
`PRIM`

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `AUDIT NOT AVAILABLE IN CMP` = The request has been denied because the audit specified in the '`b`' variable does not exist in the CMP specified.
- `INVALID CMP` = The specified CMP does not exist.
- `UNRECOGNIZED AUDIT ENVIRONMENT` = The request is denied because the environment was not recognized.

`PF` = Printout follows. Followed by the OP:ST-AUD-CMP output message.

5. REFERENCES

Output Message(s):

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```
OP:ST-AUD-CMP
```

Output Appendix(es):

```
APP:AUDITS
```

Other Manual(s):
235-600-400 *Audits*

OP:ST-AUD-ENV-A

Software Release: 5E15 only
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.

2. FORMAT

```
OP:STATUS[=a],AUD[=b],ENV=c;
```

3. EXPLANATION OF MESSAGE

`a` = The type of audit reported. Valid value(s):
- `ALL` = Report the status of all routine audits.
- `INH` = Report the status of only the inhibited audits. This is the default value.

`b` = The audit ID for an application audit. Default is all audits and audit cycles.

`c` = The kernel process. Valid value(s):
- `OKP` = Operational kernel process.
- `SMKP` = Switch maintenance kernel process.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ARGUMENT FOR ENV MISSING` = The request has been denied because neither OKP nor SMKP were specified for variable 'b'.
- `AUDIT NOT AVAILABLE IN SPECIFIED ENV` = The request has been denied because the specified audit is not available in the requested kernel process.
- `SM TYPE NOT VALID FOR THIS REQUEST` = The request has been denied because a switching module (SM) type (remote switching module (RSM), local switching module (LSM), or host switching module (HSM)) was specified for a kernel process environment.

`PF` = Printout follows. The request has been received. Followed by the OP:ST-AUD-ENV output message.

5. REFERENCES

Output Message(s):

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```
OP:ST-AUD-ENV
```

Other Manual(s):

235-600-400 *Audits*

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OP:ST-AUD-ENV-B

Software Release: 5E16(1) and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.

2. FORMAT

```
OP:STATUS[=a],AUD[=b],ENV=c;
```

3. EXPLANATION OF MESSAGE

`a` = The type of audit reported. Valid value(s):
- `ALL` = Report the status of all routine audits.
- `INH` = Report the status of only the inhibited audits. This is the default value.
- `LIST` = Lists all audits which can be requested individually.

`b` = The audit ID for an application audit. Refer to the APP:AUDITS appendix in the Appendixes section of the Output Messages manual. Default is all audits and audit cycles.

`c` = The kernel process. Valid value(s):
- `OKP` = Operational kernel process.
- `SMKP` = Switch maintenance kernel process.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ARGUMENT FOR ENV MISSING` = The request has been denied because neither OKP nor SMKP were specified for variable 'b'.
- `AUDIT NOT AVAILABLE IN SPECIFIED ENV` = The request has been denied because the specified audit is not available in the requested kernel process.
- `SM TYPE NOT VALID FOR THIS REQUEST` = The request has been denied because a switching module (SM) type [remote switching module (RSM), local switching module (LSM), or host switching module (HSM)] was specified for a kernel process environment.
- `UNRECOGNIZED AUDIT ENVIRONMENT` = The request is denied because the environment was not recognized.

`PF` = Printout follows. The request has been received. Followed by the OP:ST-AUD-ENV output message.

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5. REFERENCES

Output Message(s):

```
OP:ST-AUD-ENV
```

Other Manual(s):
235-600-400 *Audits*

OP:ST-AUD-SM-A

Software Release: 5E15 only
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.

2. FORMAT

```
OP:STATUS[=a],AUD[=b],SM=c[&&d][,RSM][,LSM][,HSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

`HSM` = Host switching module. Audit status will be retrieved for HSMs only. The default is any type of SM.

`LSM` = Local switching module. Audit status will be retrieved for LSMs only. The default is any type of SM.

`ORM` = Optically remote switching module. Audit status will be retrieved for ORMs only. The default is any type of SM.

`RSM` = Remote switching module. Audit status will be retrieved for RSMs only.

`TRM` = Two mile optically remote switching module. Audit status will be retrieved for TRMs only. The default is any type of SM.

`a` = Status of the audit. Valid value(s):
`ALL` = Report the status of all audits is printed.
`INH` = Report the status of only the inhibited audits prints. This is the default value.

`b` = Audit ID for an application audit. The default value is all audits and the routine audit cycle.

`c` = SM number, or lower limit of a range of SM numbers.

`d` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ALL AUDITS STATUS SPECIFIED WITH SM RANGE` = If the 'a' variable is ALL, either a specific audit must be used in the 'b' variable, or a specific SM must be used in the 'c' variable.
- `AUDIT NOT AVAILABLE IN SM TYPE` = The request has been denied because the audit specified in the 'b' variable does not exist in the SM type specified or does not

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exist in any SM type.

– `INVALID SM RANGE/TYPE COMBINATION` = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type or any type within the range.

`PF` = Printout follows. Followed by the OP:ST-AUD-SM output message.

`RL` = Retry later. May also include:

– `MESSAGE BROADCAST INTERNAL ERROR` = The message cannot be sent to the specified SM(s) at the present time due to problems scheduling a job to broadcast the message.

5. REFERENCES

Output Message(s):

`OP:ST-AUD-SM`

Other Manual(s):
235-600-400 *Audits*

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OP:ST-AUD-SM-B

Software Release: 5E16(1) and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.

If an SM type is not specified, the default is any type of SM.

2. FORMAT

```
OP:STATUS[=a],AUD[=b],SM=c[&&d][,RSM][,LSM][,HSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

`a` = Status of the audit. Valid value(s):
- `ALL` = Report the status of all audits is printed.
- `INH` = Report the status of only the inhibited audits prints. This is the default value.
- `LIST` = Lists all audits which can be requested individually.

`b` = Audit ID for an application audit. Refer to the APP:AUDITS Appendix in the Appendixes section of the Audits manual for valid audit IDs. The default value is all audits and the routine audit cycle.

`c` = SM number, or lower limit of a range of SM numbers.

`d` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ALL AUDITS STATUS SPECIFIED WITH SM RANGE` = If the 'a' variable is ALL, either a specific audit must be used in the 'b' variable, or a specific SM must be used in the 'c' variable.
- `AUDIT NOT AVAILABLE IN SM TYPE` = The request has been denied because the audit specified in the 'b' variable does not exist in the SM type specified or does not exist in any SM type.
- `INVALID SM RANGE/TYPE COMBINATION` = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type or any type within the range.
- `UNRECOGNIZED AUDIT ENVIRONMENT` = The request is denied because the environment was not recognized.

`PF` = Printout follows. Followed by the OP:ST-AUD-SM output message.

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`RL` = Retry later. May also include:

- `MESSAGE BROADCAST INTERNAL ERROR` = The message cannot be sent to the specified SM(s) at the present time due to problems scheduling a job to broadcast the message.

5. REFERENCES

Output Message(s):

```
OP:ST-AUD-SM
```

Other Manual(s):
235-600-400 *Audits*

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OP:ST-AUD-SODD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests the status of the full or incremental static office-dependent data (SODD) audit.

2. FORMAT

```
OP:STATUS[=a],AUD=SODD,{FULL|INCR};
```

3. EXPLANATION OF MESSAGE

`a` = The type of audit reported. Valid value(s):
- `ALL` = Report the status of all routine audits.
- `INH` = Report the status of only the inhibited audits. This is the default value.

`FULL` = Report the status of the full SODD audit.

`INCR` = Report the status of the incremental SODD audit.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an OP:ST-AUD-ENV output message.

5. REFERENCES

Input Message(s):

```
INH:AUD-SODD
ALW:AUD-SODD
```

Output Message(s):

```
OP:ST-AUD-ENV
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance Manual*

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OP:ST-CCSLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the status of one or more common channel signaling (CCS) links. Link set and member are optional. If they are omitted, all link members of all link sets on the specified global switching module (GSM) will be displayed.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
OP:STATUS,CCSLK[,SET=a[&&b]][,MEMBER=c[&&d]][,STATE=e][,SM=f];
```

3. EXPLANATION OF MESSAGE

`a` = Link set number or lower limit of a range of link sets. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual If not specified, all link members are displayed.

`b` = Upper limit of a link set number range.

`c` = Link member number or lower limit of a range of link members. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

`d` = Upper limit of a link member range.

`e` = State classification to restrict output. If not specified, links having any state are displayed. Valid value(s):

`AVAIL` = Available. Link is active, available for traffic.
`UNAV` = Unavailable. Link unavailable for traffic.

`f` = GSM number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `NEED GSM NUMBER` = SM was not specified in the input message, and the office has more than one GSM provisioned.

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`PF` = Printout follows. Followed by the OP:STATUS-CCSLK output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the GSM is not accessible.

5. REFERENCES

Output Message(s):

`OP:ST-CCSLK`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)

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OP:ST-DISKUSE

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests the number of blocks contained in all files and directories within each specified directory or filename. This process is repeated for all directories that descend from the specified directories. The block count includes the indirect blocks of the file.

2. FORMAT

```
OP:STATUS,DISKUSE,FN="a",{TOTAL|EACH}[,OPL=b];
```

3. EXPLANATION OF MESSAGE

`EACH` = Print an entry for each file.

`TOTAL` = Print the total number of blocks in the directory or file.

`a` = Pathname of the file.
Note: The default for TOTAL and EACH is to generate an entry for each directory only. One of these variables must be used when a file is specified as variable 'a'.

`b` = Number of segments to be output (specified in decimal). Default = 10 segments. Each segment has a maximum size of 1000 bytes or 20 lines. This option is not needed when TOTAL is used.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-DISKUSE output message.

5. REFERENCES

Input Message(s):

```
OP:ST-LISTDIR
OP:ST-SUM
```

Output Message(s):

```
OP:ST-DISKUSE
OP:ST-LISTDIR
OP:ST-SUM
```

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Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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OP:ST-DSE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a report of the on/off status of the direct signaling events (DSE) trapping and printing. This function includes the advanced services platform (ASP), automated inward line screening (AILS), billing validation application (BVA) calling card service (CCRD), BVA billing number screening (BNS), customer account services (CAS), CAS common channel signaling 7 (CCS7), interswitch voice messaging (ISVM), international credit card validation (ICCV), inward wide area telecommunications services (INWATS), leased network (LN), line applications for consumers (LAC), line information database (LIDB) BNS, LIDB CCRD features, LIDB OLNS, network call denial (NCD), number services (NS), rating, software defined network (SDN) or Operator Services Position System (OSPS) local number portability (LNP).

DSE traps can be turned on with the SET:DSE input message and turned off with the CLR:DSE input message. Events are reported in the REPT:ACP-APP-SM, REPT:ASP, REPT:DSE, REPT:MS-TRAPPED, REPT:NS or REPT:OSPS-DSE output message.

2. FORMAT

```
OP:STATUS,DSE=a;
```

3. EXPLANATION OF MESSAGE

`a` = Name of event trap whose status is to be output. Valid value(s):

`AILSGMG`	= AILS message received with invalid format reply.
`AILSMRQ`	= AILS error - misrouted query.
`AILSTOT`	= AILS query timed out before a reply was received.
`AILSTRF`	= AILS error - task refused.
`AILSUDV`	= AILS error - message received with unexpected input data value.
`ASPACGCOMP`	= Advanced services platform (ASP) service control point (SCP) response or unidirectional message with an automatic call gap (ACG) component received at the switch.
`ASPBADRESP`	= ASP SCP response message received with invalid data.
`ASPNORTEMSG`	= ASP reject message, a return error, or a play announcement received at the switch from the SCP.
`ASPQRYFAIL`	= ASP query blocked by network management (NM) ACG, a returned query or conversation received at the switch or a time out received in call processing.
`ASPSNCOMP`	= ASP SCP response message with a send notification received at the switch.
`ASPTNMSG`	= ASP termination notification message sent from the switch to the SCP.
`CASDBOV`	= CAS message received indicating database overload.
`CASDBUN`	= CAS message returned - database unable to process.
`CASGMSG`	= CAS message received garbled.
`CASNBLK`	= CAS message returned because of network blockage.
`CASNCON`	= CAS message returned because of network congestion.
`CASNRTE`	= CAS message returned because of no routing data.
`CASTOUT`	= CAS message returned because of timeout.
`CASUNEQ`	= CAS message returned because of unequipped destination.

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CASURPY = CAS message received with an unexpected reply.
CAS7ABM = CAS CCS7 abort message received.
CAS7ACG = CAS CCS7 ACG invoke component received.
CAS7GMG = CAS CCS7 received with invalid format reply.
CAS7GWE = CAS CCS7 error - gateway error.
CAS7MPR = CAS CCS7 error - message received with missing parameter.
CAS7MRQ = CAS CCS7 error - misrouted query.
CAS7NCG = CAS CCS7 message returned because of network congestion.
CAS7NFL = CAS CCS7 message returned because of network failure.
CAS7RCR = CAS CCS7 reject component received.
CAS7SCG = CAS CCS7 message returned because of subsystem congestion.
CAS7SFL = CAS CCS7 message returned because of subsystem failure.
CAS7TAN = CAS CCS7 message returned - no translation data for address of such nature.
CAS7TOT = CAS CCS7 query which timed out before reply received.
CAS7TRF = CAS CCS7 error - task refused.
CAS7TSA = CAS CCS7 message returned - no translation data for this specific address.
CAS7UDV = CAS CCS7 error - message received with unexpected input data value.
CAS7UPR = CAS CCS7 error - message received with unexpected parameter.
CAS7UQD = CAS CCS7 message returned - unqualified.
CAS7URY = CAS CCS7 received with unexpected reply.
CAS7UUR = CAS CCS7 message returned - unequipped user.
CAS7VCD = CAS CCS7 error - vacant code.
CCDDBOV = BVA CCRD message received indicating database overload.
CCDDBUN = BVA CCRD message returned - database unable to process.
CCDGMSG = BVA CCRD message received garbled.
CCDNBLK = BVA CCRD message returned because of network blockage.
CCDNCON = BVA CCRD message returned because of network congestion.
CCDNRTE = BVA CCRD message returned because of no routing data.
CCDUNEQ = BVA CCRD message returned- unequipped destination.
CCDURPY = BVA CCRD message received with an unexpected reply.
ICCVABM = ICCV abort message received.
ICCVDBU = ICCV error - message returned - database unavailable.
ICCVEMF = ICCV error in message format.
ICCVGMG = ICCV received with invalid format reply.
ICCVMPR = ICCV error - message received with missing parameter.
ICCVMRQ = ICCV error - misrouted query.
ICCVNCG = ICCV message returned because of network congestion.
ICCVNFL = ICCV message returned because of network failure.
ICCVRCR = ICCV reject component received.
ICCVSCG = ICCV message returned because of subsystem congestion.
ICCVSFL = ICCV message returned because of subsystem failure.
ICCVTAN = ICCV message returned - no translation data for address of such nature.
ICCVTOT = ICCV query which timed out before reply received.
ICCVTSA = ICCV message returned - no translation data for this specific address.
ICCVUDV = ICCV error - message received with unexpected input data value.
ICCVUPR = ICCV error - message received with unexpected parameter.
ICCVUQD = ICCV message returned - unqualified.
ICCVURY = ICCV received with unexpected reply.

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ICCVUUR = ICCV message returned - unequipped user.
INWBLKD = INWATS returned blocked.
INWBUSY = INWATS all lines busy.
INWCCBL = INWATS code control blocked.
INWDBOV = INWATS database overload.
INWDBTO = INWATS database timeout.
INWDSBL = INWATS direct signaling blocked.
INWNNPA = INWATS nonpurchased numbering plan area (NPA).
INWNOXL = INWATS returned no translation.
INWONPA = INWATS invalid originating numbering plan area (ONPA).
INWOVLD = INWATS returned overload.
INWUNEQ = INWATS returned unequipped.
INWVLIN = INWATS vacant line number.
INWVNXX = INWATS vacant NXX.
LACABM = LAC abort message received.
LACACG = LAC invoke component received.
LACGMG = LAC message received with invalid format.
LACMPR = LAC error - message received with missing parameter.
LACMRQ = LAC error - misrouted query.
LACNCG = LAC message returned because of network congestion.
LACNFL = LAC message returned because of network failure.
LACRCR = LAC reject component received.
LACSCG = LAC message returned because of subsystem congestion.
LACSFL = LAC message returned because of subsystem failure.
LACTAN = LAC message returned - no translation data for address of such nature.
LACTOT = LAC query timed out before a reply was received.
LACTRF = LAC error - task refused.
LACTSA = LAC message returned - no translation data for this specific address.
LACUDV = LAC error - message received with unexpected input data value.
LACUPR = LAC error - message received with unexpected parameter.
LACUQD = LAC message returned - unqualified.
LACURY = LAC unexpected reply.
LACUUR = LAC message returned - unequipped user.
LACVCD = LAC error - vacant code.
LIDBCGI = LIDB message with call gapping indicator present.
LIDBGM = LIDB garbled message.
LIDBMGM = LIDB return value missing group or misrouted.
LIDBNAN = LIDB return value no translation for an address of such nature.
LIDBNCG = LIDB return value network congestion.
LIDBNFL = LIDB return value network failure.
LIDBNPG = LIDB return value nonparticipating group.
LIDBNSA = LIDB return value no translation for this specific address.
LIDBREJ = LIDB reject message received.
LIDBSCG = LIDB return value subsystem congestion.
LIDBSFL = LIDB return value subsystem failure.
LIDBTO = LIDB message missed because of timeout.
LIDBUP = LIDB message with unexpected reply.
LIDBUUR = LIDB return value unequipped user.
LNBAS = Call failed due to the query being blocked at the switch.

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LNBN	= Call failed due to the query being blocked in the common channel signaling (CCS) network.
LNGTCAP	= Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.
LNNCANI	= Centralized automatic message accounting (CAMA) call failed due to CAMA trunk not providing automatic number identification (ANI) for query.
LNNCFA	= Call failure due to some reason while the transaction with the network control point (NCP) is active.
LNNCFI	= Call failure due to some reason while the transaction with the NCP is inactive.
LNRER	= Call failed due to the conversation with the NCP resulting in a return error response.
LNRR	= Call failed due to the conversation with the NCP resulting in a reject response.
LNTIM	= Call failed due to the query not being answered in time by the NCP.
LNTRF	= Call failed due to the NCP answering with a terminate request.
MSFAILRCVD	= A "Message Service System (MSS) reject" message or a "return error" message was received at the near/far switch from the far/near switch respectively.
MSFAILSENT	= An "MSS reject" message or a "return error" message was sent to the near/far switch from the far/near switch respectively.
MSQRYFAIL	= A timeout was received in the MSS. A "return query" message received at the near switch because of network failure or failure to send a query.
NCDAFTA	= NCD denied after answer.
NCDBEFA	= NCD denied before answer.
NCDBLKD	= NCD returned blocked.
NCDCCBL	= NCD code control blocked.
NCDDBOV	= NCD database overload.
NCDDENY	= NCD deny received.
NCDDSBL	= NCD direct signaling blocked.
NCDNOXL	= NCD returned no translation.
NCDOVLD	= NCD returned overload.
NCDUNEQ	= NCD returned unequipped.
NSACGCOMP	= Number services (NS) SCP response message with an ACG component received at the switch.
NSBADRESP	= NS SCP response message with invalid data.
NSNONRTEMSG	= NS reject message, a return error or a play announcement received at the switch from the SCP.
NSQRYFAIL	= NS query blocked by NM ACG, a returned query received at the switch or a time out received in call processing.
NSSNCOMP	= NS response message with a send notification received at the switch.
NSTNMSG	= NS termination notification message sent from the switch to the SCP.
OLNPABM	= OSPS LNP abort message received.
OLNPACG	= OSPS LNP ACG invoke component received.
OLNPECR	= OSPS LNP error code received.
OLNPGMG	= OSPS LNP received with invalid format reply.
OLNPNCG	= OSPS LNP message returned because of network congestion.
OLNPNFL	= OSPS LNP message returned because of network failure.
OLNPRCR	= OSPS LNP reject component received.
OLNPSCG	= OSPS LNP message returned because of subsystem congestion.

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OLNPSFL	= OSPS LNP message returned because of subsystem failure.
OLNPTOT	= OSPS LNP query which timed out before reply received.
OLNPTSA	= OSPS LNP message returned - no translation data for this specific address.
OLNPTSN	= OSPS LNP message returned - no translation data for address of such nature.
OLNPUQD	= OSPS LNP message returned - unqualified.
OLNPURY	= OSPS LNP received with unexpected reply.
OLNPUUR	= OSPS LNP message returned - unequipped user.
RATDBOV	= Rating message received indicating database overload.
RATDBUN	= Rating message returned - database unable to process.
RATGMSG	= Rating message received garbled.
RATTOUT	= Rating message returned because of timeout.
RATURPY	= Rating message received with an unexpected reply.
SDNBAS	= Call failed due to the query's being blocked at the switch.
SDNBN	= Call failed due to the query's being blocked in the common channel signaling (CCS) network.
SDNGTCAP	= Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.
SDNNCANI	= Centralized automatic message accounting (CAMA) call failed due to CAMA trunk's not providing automatic number identification (ANI) for query.
SDNNCFA	= Call failed while the transaction with the network control point (NCP) was active.
SDNNCFI	= Call failed while the transaction with the NCP was inactive.
SDNNOCANI	= CAMA call failed due to CAMA trunk's not providing ANI through operator number identification (ONI) for query.
SDNRER	= Call failed because to the conversation with the NCP resulting in a return error response.
SDNRR	= Call failed because to the conversation with the NCP resulting in a reject response.
SDNTIM	= Call failed due to the query's not being answered in time by the NCP.
SDNTRF	= Call failed due to the NCP's answering with a terminate request.

4. SYSTEM RESPONSE

PF	= Printout follows. The request was received and the OP:ST-DSE output message follows.

5. REFERENCES

Input Message(s):

```
CLR:DSE
SET:DSE
```

Output Message(s):

```
OP:ST-DSE
REPT:ACP-APP-SM
```

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```
REPT:ASP
REPT:DSE
REPT:MS-TRAPPED
REPT:NS
REPT:OSPS-DSE
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-190-120 *Common Channel Signaling Service Features*
235-190-12x *Advanced Services Platform*

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OP:ST-ENV-AUD

Software Release: 5E16(1) and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a list of environments supporting the requested audit.

2. FORMAT

```
OP:STATUS=ENV,AUD=[a],FULL;
```

3. EXPLANATION OF MESSAGE

`a` = Audit ID for an application audit. Refer to the APP:AUDITS Appendix in the Output Messages manual for valid audit IDs.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `MISSING KEYWORD FULL` = The keyword "FULL" must be supplied.
- `APPLICATION AUDIT MUST BE SPECIFIED FOR THIS REQUEST` The audit specified does not exist or is not an application audit. In particular, this command does not apply to the routine audit cycle or SODD audit.

`PF` = Printout follows. Followed by the OP:ENV-AUD output message.

5. REFERENCES

Output Message(s):

`OP:ENV-AUD`

Other Manual(s):
235-600-400 *Audits*

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OP:ST-FILESYS

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests information about all of the mounted file systems.

2. FORMAT

```
OP:STATUS,FILESYS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-FILESYS output message.

5. REFERENCES

Input Message(s):

```
ALW:FSYS-MOUNT
INH:FSYS-UMOUNT
```

Output Message(s):

```
OP:ST-FILESYS
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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OP:ST-FREEDISK

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests the number of free blocks and free inodes available for online file systems. If the file system is unspecified, the free space on all the mounted file systems is listed.

2. FORMAT

```
OP:STATUS,FREEDISK[,FN="a"];
```

3. EXPLANATION OF MESSAGE

`a` = Full pathname of the file system.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-FREEDISK output message.

5. REFERENCES

Input Message(s):

```
ALW:FSYS-MOUNT
OP:ST-FILESYS
```

Output Message(s):

```
OP:ST-FILESYS
OP:ST-FREEDISK
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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OP:ST-GQPHLNK

Software Release: 5E16(2) and later
Command Group: SIP
Application: 5
Type: Input

1. PURPOSE

Requests status for general quad-link packet switch protocol handler links (GQPHLNKs) associated with a particular global switching module (GSM).

2. FORMAT

```
OP:STATUS,GQPHLNK,(LINK=a-b-c-d-e-f|QPIPE=a-b-c-d-e|GQPH=a-b-c-d);
```

3. EXPLANATION OF MESSAGE

`a` = GSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = GQPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Quad-link packet switch (QLPS) network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Non-global switching module (NGSM) number, noting only an NGSM-2000 is a valid input. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT A GSM` = This response indicates that the input GSM (part of the LINK, QPIPE or GQPH specification) is not a provisioned GSM.
- `SM UNEQUIPPED` = This response indicates that the input GSM (part of the LINK, QPIPE or GQPH specification) is not even an equipped SM.

`PF` = The request has been accepted. An OP STATUS GQPHLNK output message will follow.

`RL` = Retry later. May also include:
`RL – GSM NOT AVAILABLE` = This response indicates that the input GSM (part of the LINK, QPIPE or GQPH specification) is not available, because it is isolated or undergoing an initialization.

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5. REFERENCES

Output Message(s):

```
OP:ST-GQPHLNK
```

Input Appendix(es):

```
APP:RANGES
```

OP:ST-GQPHPIPE

Software Release: 5E16(2) and later
Command Group: SIP
Application: 5
Type: Input

1. PURPOSE

Requests status for general quad-link packet switch protocol handler (GQPH) QPIPEs on a HOST global switching module (GSM).

2. FORMAT

```
OP:STATUS,GQPHPIPE,(QPIPE=a-b-c-d-e[,DETAIL]|GQPH=a-b-c-d|GSM=a);
```

3. EXPLANATION OF MESSAGE

`DETAIL` = Provides location of parent quad-link packet switch time-multiplex switch link (QTMSLNK) and network link interface (NLI) associated with the specified GQPH QPIPE, in addition to status.

`a` = GSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = GQPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Quad-link packet switch (QLPS) network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT A GSM` = This response indicates that the input GSM (possibly part of the QPIPE or GQPH specification) is not a provisioned GSM.
- `SM UNEQUIPPED` = This response indicates that the input GSM (possibly part of the QPIPE or GQPH specification) is not even an equipped SM.

`PF` = The request has been accepted. Followed by annnnnnnnn OP:ST-GQPHPIPE output message.

`RL` = Retry later. May also include:
- `GSM NOT AVAILABLE` = This response indicates that the input GSM (possibly part of the QPIPE or GQPH specification) is not available, because it is isolated or undergoing an initialization.

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5. REFERENCES

Output Message(s):

```
OP:ST-GQPHPIPE
```

Input Appendix(es):

```
APP:RANGES
```

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OP:ST-GSMNET

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs). CMT is the ability to transport CCS messages internally within the switch. For an ISLAND GSM, the only permissible NGSM is the GSM itself.

Note: If the output is not restricted to a single NGSM, it may be restricted by state:
- ACC = Status reports of all accessible NGSMs.
- INACC = Status reports of all inaccessible NGSMs.
- ALL = Status reports of all NGSMs.
- DOWN = Status reports indicating one (of two) provisioned TMH paths is unavailable.

Only one of these options, NGSM or STATE (if any) is permitted. If the NGSM is specified, output will be produced regardless of state; the NGSM specified must be the GSM itself. If neither the NGSM or STATE option is specified, the default is the GSM itself with INACC or DOWN state.

2. FORMAT

```
OP:STATUS,GSMNET,[GSM=a],[NGSM=b|STATE=c];
```

3. EXPLANATION OF MESSAGE

`a` = HOST GSM number. If no SM number is specified and only one CCS GSM exists in the office, that GSM will be defaulted. Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

`b` = Specific NGSM (the default is ALL NGSMs). Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

`c` = State restriction. Valid value(s):
- `ACC` = only list GSM/NGSM pairs with CMT connectivity.
- `INACC` = only list GSM/NGSM pairs with no CMT connectivity.
- `ALL` = list all provisioned GSM/NGSM pairs.
- `DOWN` = only used to indicate one (of two) provisioned TMH paths is unavailable.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `GSM MUST BE SPECIFIED` = No GSM was specified, and there is more than one GSM provisioned in the office.
- `INVALID NGSM` = The NGSM specified to restrict output is not served by the target GSM.

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That specified NGSM must be the GSM.

- `NO GSM PROVISIONED` = No GSM was specified, and there are no GSMs provisioned in the office.
- `NO NGSM PROVISIONED` = No NGSM is provisioned for the identified GSM, which should be a transient condition during a growth/degrowth sequence (with STATUS or no option only).
- `NOT A GSM` = This response indicates that the input GSM is not a provisioned HOST or ISLAND GSM.
- `SM # UNEQUIPPED` = This response indicates that the input GSM is not an equipped SM. This error is only valid for the input GSM.

`PF` = Printout follows. The request has been accepted. Followed by the OP:ST-GSMNET output message.

`RL` = Retry later. May also include:

- `GSM NOT AVAILABLE` = This response indicates that the input GSM is not available, because it is isolated or undergoing an initialization.

5. REFERENCES

Output Message(s):

`OP:ST-GSMNET`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):

235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1540 (GSM CMT STATUS)

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OP:ST-ISMNAIL

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Outputs the primary and history states of a single inter-SM (switching module) nailup (ISMNAIL), used for packet transport between two SMs.

2. FORMAT

```
OP:STATUS,ISMNAIL,DLT=a-b,MATEDLT=c-d;
```

3. EXPLANATION OF MESSAGE

`a` = SM number (may be the SM associated with either end of the ISMNAIL). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Data link terminal (DLT) number associated with the source SM.

`c` = Mate SM number (the other SM associated with the ISMNAIL). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DLT number associated with the mate SM.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM ## NOT IN THE ISM NETWORK` = The request has been denied. Either the source or the destination SM or both have no ISMNAILS associated with it.

`PF` = Printout follows. The request has been accepted. Followed by the OP:ST-ISMNAIL output message.

`RL` = Retry later. The request cannot be executed immediately because the automatic task administrator (ATA) cannot currently schedule a new task; retry later, when system load is reduced.

5. REFERENCES

Output Message(s):

`OP:ST-ISMNAIL`

Input Appendix(es):

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APP:RANGES

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OP:ST-ISMTS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Outputs the inter-SM (switching module) timeslot (ISMTS) usage of inter-SM nailups (ISMNAIL), used for packet transport between two SMs.

Network side time slot inter-change unit (TSIU) timeslot usage is provided; this corresponds to time multiplexed switch (TMS) timeslot usage in a local switching module (LSM), host switching module (HSM), optically remoted module (ORM), and/or trunk remoted module (TRM), noting the HSM count will include usage due to ISMNAILs terminating on child remote switching modules (RSMs). Also provides peripheral interface data bus (PIDB) timeslot usage, parsed on a packet switch unit (PSU) shelf basis.

2. FORMAT

```
OP:STATUS,ISMTS,SRCSM=a;
```

3. EXPLANATION OF MESSAGE

`a` = Source SM number for which timeslot usage is required.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM ## NOT IN THE ISM NETWORK` = The request has been denied. The source SM designated has no ISMNAIL resources associated with it.
- `SM NOT EQUIPPED` = The request has been denied. The source SM is not equipped in the office.

`PF` = Printout follows. The request has been accepted. Followed by the OP:ST-ISMTS output message.

5. REFERENCES

Output Message(s):

`OP:ST-ISMTS`

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OP:ST-ISUP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a report of the on/off status of the intergrated services digital network (ISDN) user part (ISUP) events trapping and printing.

ISUP traps can be turned on with the SET:ISUP input message and turned off with the CLR:ISUP input message. Events are reported in the REPT:ISUP output message.

2. FORMAT

```
OP:STATUS,ISUP=ATPUUI;
```

3. EXPLANATION OF MESSAGE

`ATPUUI` = Access transport parameter (ATP) user-to-user information (UUI).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was received and is followed by the OP:ST-ISUP output message.

5. REFERENCES

Input Message(s):

```
CLR:ISUP
SET:ISUP
```

Output Message(s):

```
OP:ST-ISUP
REPT:ISUP
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:ST-LI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests information from internal registers of the link interface (LI) or the specified office network and timing complex (ONTC) side.

Note: This message is only valid for communication module model 1 (CM1) hardware.

2. FORMAT

```
OP:STATUS,LI=a;
```

3. EXPLANATION OF MESSAGE

`a` = ONTC side that the LI is on.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of this manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Appendix(es):

`APP:CM-IM-REASON`

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OP:ST-LISTDIR

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests the contents of a specific directory or file.

2. FORMAT

```
OP:STATUS,LISTDIR,FN="a"[,OPL=b];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the directory or file.

`b` = Number of segments to be output, specified in decimal. Default=10 segments; maximum=999. Each segment has a maximum size of 1000 bytes or 20 lines.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-LISTDIR output message.

5. REFERENCES

Input Message(s):

```
ALW:FSYS-ACCESS
```

Output Message(s):

```
OP:ST-LISTDIR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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OP:ST-MD

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status of the common channel signaling (CCS) message delivery (MD) network. The status of the intra-global switching module (GSM) MD path is printed.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
OP:STATUS,MD[,SM=a];
```

3. EXPLANATION OF MESSAGE

`a` = GSM number. CCS GSM number from which the data is desired. If no SM number is specified and one/more CCS GSMs exist in the office, the output will be produced for all CCS GSMs in the office.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM SPECIFIED MUST BE A GSM` = The specified SM is equipped, but is not a GSM.
- `SM x UNEQUIPPED` = The specified SM is not equipped, where '`x`' is the SM entered in the input message.
- `NO GLOBAL SM` = No GSM is provisioned in the office.

`RL` = Retry later. Valid value is:
- `SM x CURRENTLY UNAVAILABLE` = Command cannot be processed because the specific GSM is not accessible.

`PF` = Printout follows. Followed by the OP:STATUS-MD output message.

5. REFERENCES

Output Message(s):

```
OP:ST-MD
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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MCC Display Page(s):

1530 (GLOBAL SM MESSAGE DELIVERY STATUS)

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OP:ST-MELNK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the maintenance state of the MCTSI-based ethernet links (MELNKs) and MCTSI-based ethernet pipes (MEPIPEs) on a switching module (SM).

2. FORMAT

```
OP:STATUS,MELNK,SM=a[&&b][,OFFNORM|,NOFE][,NOPRINT];
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`OFFNORM` = Off normal. Reports only equipped MEPIPEs/MELNKs that are not in the active state.

`NOFE` = Not family of equipment. Same as OFFNORM except OOSFE (out of service family of equipment) MELNKs are not printed.

`NOPRINT` = No print. This option suppresses printing of the OP:ST-MELNK output response when no accessible SMs in an SM range have equipped MELNKs. When used with the OFFNORM or NOFE options, NOPRINT also suppresses printing of the OP:ST-MELNK output response from SMs with no MEPIPEs or MELNKs in an off normal condition.

4. SYSTEM RESPONSE

`NG` = No good. Valid qualifiers are:
- `NO SUCH SM` = Input command specified an SM that does not exist.
- `SM UNEQ` = Input command specified an SM that is unequipped.
- `UNIT UNEQ` = Input command specified an SM with no equipped MELNKs.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. Optional additional qualifiers are:
- `SM ISOLATED` = Cannot communicate with requested SM.
- `CANNOT CREATE TERMINAL PROCESS` = The request cannot be executed now due to the unavailability of the system resources necessary for creating a terminal process.

`PF` = Printout follows. An OP:ST-MELNK output message will follow in response to the request.

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5. REFERENCES

Output Message(s):

```
OP:ST-MELNK
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1204 (MELNK STATUS)

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OP:ST-MI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests the hardware state of the message interface (MI).

This command is not applicable in Communication Module 3 (CM3) office.

2. FORMAT

```
OP:STATUS,MI=a,b;
```

3. EXPLANATION OF MESSAGE

`a` = Office network and timing complex (ONTC) side (0 or 1).

`b` = Hardware states. Valid value(s):

`ALL`	= All hardware states.
`REGS`	= MI registers.
`TS1H`	= First half time slots.
`TS2H`	= Second half time slots.

4. SYSTEM RESPONSE

`NG` = No good. Request is valid but there is a hardware problem.

`PF` = Printout follows. Request accepted and in progress; printout follows.

`RL` = Retry later. MI configuration (MICON) was aborted while processing the input request.

5. REFERENCES

Output Message(s):

`OP:ST-MI`

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OP:ST-NGSMNET

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status of the CCS message transport (CMT) connectivity between a specified non-global switching module (NGSM) and one/more of its associated global switching modules (GSM). CMT is the ability to transport CCS messages internally within the switch. For an ISLAND GSM, the only permissible NGSM is the GSM itself.

Note: If the output is not restricted to a single GSM, it may be restricted by state:
- ACC = Status reports of all associated accessible GSMs.
- INACC = Status reports of all associated inaccessible GSMs.
- ALL = Status reports of all associated GSMs.
- DOWN = Status reports to indicate one (of two) provisioned TMH paths is unavailable.

Only one of these options, GSM or STATE (if any) is permitted. If the GSM is specified, output will be produced regardless of state; the GSM specified must be the NGSM itself. If neither the GSM or STATE option is specified, the default is all provisioned GSMs with INACC or DOWN state.

2. FORMAT

```
OP:STATUS,NGSMNET,NGSM=a,[GSM=b|STATE=c];
```

3. EXPLANATION OF MESSAGE

`a` = NGSM number (a HOST/ISLAND GSM can function as a NGSM and will be allowed as an input). Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

`b` = Specific ISLAND GSM (only the specified NGSM is allowed). Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

`c` = State restriction. Valid value(s):
- `ACC` = only list GSM/NGSM pairs with CMT connectivity.
- `INACC` = only list GSM/NGSM pairs with no CMT connectivity.
- `ALL` = list all GSM/NGSM pairs.
- `DOWN` = only used to indicate one (of two) provisioned TMH paths is unavailable.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID GSM` = The GSM specified to restrict output is not provisioned to serve the specified NGSM.

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- NOT A NGSM = This response indicates that the input SM number is not a NGSM (such as, on intra-SM MD link is not provisioned to serve this SM).
- SM # UNEQUIPPED = This response indicates that the input NGSM is not an equipped SM. This error is only valid for the input NGSM.

PF = Printout follows. The request has been accepted. Followed by the OP:ST-NGSMNET output message.

RL = Retry later. May also include:
- NGSM NOT AVAILABLE = This response indicates that the input NGSM is not available, because it is isolated or undergoing an initialization.

5. REFERENCES

Output Message(s):

OP:ST-NGSMNET

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1541 (NGSM CMT STATUS)

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OP:ST-PHGRP

Software Release: 5E19(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

A protocol handler (PH) group (PHGRP) is defined by a mated pair of ethernet PHs. A PH group is uniquely defined by switching module (SM), packet switch unit (PSU), and PH group number.

Format 1 requests the status of given PH group.

Format 2 requests the status of all PH groups on a given SM and also the range of SMs. If option `d` is specified then the output includes all the ph groups with that given status.

Format 3 requests the status of all PH groups on a given SM and PSU. If option `d` is specified then the output includes all the ph groups with that given status.

Format 4 requests the status of all PH groups on a given SM and also the range of SMs. When specified with the UNAV status (variable `d`), this option suppresses the printing of the response message if no PH group is in the UNAV state.

Format 5 requests the status of all PH groups on a given SM and PSU. When specified with the UNAV status (variable `d`), this option suppresses the printing of the response message if no PH group is in the UNAV state.

2. FORMAT

```
[1]    OP:STATUS,PHGRP=a-b-c;
       ____________________________________________________________

[2]    OP:STATUS,PHGRP,SM=1&&192[,d];
       ____________________________________________________________

[3]    OP:STATUS,PHGRP,PSU=a-b[,d];
       ____________________________________________________________

[4]    OP:STATUS,PHGRP,SM=1&&192,UNAV,NOPRINT;
       ____________________________________________________________

[5]    OP:STATUS,PHGRP,PSU=a-b,UNAV,NOPRINT;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PH group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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d = Status of the PH group that can be requested. Valid value(s):

- OOS = Out of service. Both ethernet links of a PH group are a combination of OOS-FE, OOS-LK, or OOS-GW.
- OFFNORM = Off normal. One ethernet link of a PH group is active.
- UNAV = Unavailable. At least one ethernet link of a PH group is OOS-LK, OOS-GW, ACT-GW, or ACT-NGW.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:STATUS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
OP:ST-PHGRP
```

Input Appendix(es):

```
APP:RANGES
```

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OP:ST-PLNT24

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests the print status of all parts of the 24-hour plant report.

2. FORMAT

```
OP:STATUS,PLNT24;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-PLNT24 output message.

5. REFERENCES

Input Message(s):

```
ALW:PLNT24
INH:PLNT24
OP:PLNT24
```

Output Message(s):

```
OP:ST-PLNT24
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:ST-PORTS

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests the status of each connected administrative module (AM) message port.

2. FORMAT

```
OP:STATUS,PORTS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-PORTS output message.

5. REFERENCES

Output Message(s):

`OP:ST-PORTS`

MCC Display Page(s):

(CRAFT FM 01)

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OP:ST-PROC

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests the status of active processes by specific class.

2. FORMAT

```
OP:STATUS,PROCESS,{ALLTERMS|ALLKERNS|ALL|PATH}[,OPL=a];
```

3. EXPLANATION OF MESSAGE

`ALL` = Same as ALLTERMS, plus process group leaders; that is, all non-kernel level processes. Pathname lengths are consistent with the PS(2G) input message using the -l option.

`ALLKERNS` = Report detailed operational status of all kernel processes. Also prints the parent process identification (PID).

`ALLTERMS` = Report detailed operational status of all processes associated with terminals. Pathname lengths are consistent with the PS(2G) input message using the -l option.

`PATH` = Report full pathnames and invoking process arguments with process identifiers and possible terminal suffixes of all non-kernel level processes. Also prints the parent PID.

`a` = Number of segments to be output, specified in decimal. Default = 10 segments; maximum = 999. Each segment has a maximum size of 1000 bytes or approximately 12 lines.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-PROC output message.

5. REFERENCES

Input Message(s):

```
STOP:EXC-ANY
STOP:EXC-USER
```

Output Message(s):

```
OP:ST-PROC
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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MCC Display Page(s):

(CRAFT FM 01)

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OP:ST-PSALNK

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current link status and other information of a single asynchronous transfer mode (ATM) link (PSALNK) or the output of the current status of a group of ATM links.

With the exception of Format 1, output can be limited to those links with a specific ATM link status.

2. FORMAT

```
[1]    OP:STATUS,PSALNK=a-b-c;
       ____________________________________________________________

[2]    OP:STATUS,PSALNK,SM=a[,d];
       ____________________________________________________________

[3]    OP:STATUS,PSALNK,SM=a,UNAV,NOPRINT;
       ____________________________________________________________

[4]    OP:STATUS,PSALNK,PSU=a-b[,d];
       ____________________________________________________________

[5]    OP:STATUS,PSALNK,PSU=a-b,UNAV,NOPRINT;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. A range of SMs can be specified for Formats 2 and 3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number.

`c` = ATM link number.

`d` = Find only link(s) or channel(s) whose status is this value. Valid value(s):

- `OFFNORM` = Off normal. Includes OOS links and duplex links with only one channel in service.
- `OOS` = Out-of-service. Links with no members in service.
- `UNAV` = Unavailable. Channel is manually made unavailable by the SET:PSALNK input message.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

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`PF` = Printout follows. Followed by the OP:STATUS output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
OP:ST-PSALNK
OP:CONV-PSALNK
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):
1187,y,x PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)

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OP:ST-PSELNK

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

An ethernet link is defined by the SM, PSU to which it is connected and link number.

Format 1 requests the status of given ethernet link.

Format 2 requests the status of all the ethernet links on a given SM and also the range of SMs. If the OOS option is specified, then the output includes all the links with that given status.

Format 3 requests the status of all the links on a given SM and PSU. If the OOS option is specified, then the output includes all the links with that given status.

2. FORMAT

```
[1]    OP:STATUS,PSELNK=a-b-c;
       ____________________________________________________________

[2]    OP:STATUS,PSELNK,SM=1&&192[,OOS];
       ____________________________________________________________

[3]    OP:STATUS,PSELNK,PSU=a-b[,OOS];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Ethernet link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by the OP:STATUS output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Output Message(s):

```
OP:ST-PSELNK
```

Input Appendix(es):

```
APP:RANGES
```

OP:ST-PSLNK-A

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be directly entered in the input message line, or can be translated by the switch from the entered PSU equipment number or switching module (SM) number. However, the far end CA can not be specified by the PSU equipment number.

If only the near end PSU CA(s) is given or can be translated, then the status of all PSU links originating from the given or translated near end PSU CA(s) to all existing far end PSU CA(s) will be reported. Entering the far end PSU CA (optional) will give a more selective and expanded report of a particular PSU link status and other information.

With the exception of Formats 8 through 10, output can be limited to those links with a specific PSU link status.

NOTE:For gateway protocol handlers (PH) the only valid input message format is # 11. Other formats will not yield the expected results.

2. FORMAT

```
[1]    OP:STATUS,PSLNK=a-b[,c];

[2]    OP:STATUS,PSLNK,PSUCA=a,FARCA=b[,c];

[3]    OP:STATUS,PSLNK,PSU=d-0,FARCA=b[,c];

[4]    OP:STATUS,PSLNK,SM=d,FARCA=b[,c];

[5]    OP:STATUS,PSLNK,PSUCA=a[,c];

[6]    OP:STATUS,PSLNK,PSU=d-0[,c];

[7]    OP:STATUS,PSLNK,SM=d[,c];

[8]    OP:STATUS,PSLNK,PSU=d-0,UNAV,NOPRINT;

[9]    OP:STATUS,PSLNK,PSUCA=a,UNAV,NOPRINT;

[10]   OP:STATUS,PSLNK,SM=d,UNAV,NOPRINT;

[11]   OP:STATUS,PSLNK,PSUCA=a;
```

3. EXPLANATION OF MESSAGE

`NOPRINT` = No print. When specified with the UNAV state (variable '`c`'), this option suppresses the printing of the response message if no PSU link has any channel in UNAV state.

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a = Near PSU community address of the PSU link.

b = Far PSU community address of the PSU link.

c = Find only link(s) or channel(s) whose status is this value.

Note: Since Formats 1 through 4 request the status of one specific link, the status will always be printed regardless of the link state. This means that variable 'c' is ignored for these formats.

Valid value(s):

OFFNORM = Off normal. Includes OOS links and duplex links with only one channel in service.

OOS = Out-of-service. Links with no members in service.

UNAV = Unavailable. Channel is manually made unavailable by the SET:PSLNK input message.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:STATUS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Appendix(es):

APP:RANGES

Output Message(s):

OP:ST-PSLNK

MCC Display Page(s):

PSU LINKS STATUS

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OP:ST-PSLNK-B

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be directly entered in the input message line, or can be translated by the switch from the entered PSU equipment number or switching module (SM) number. However, the far end CA can not be specified by the PSU equipment number.

If only the near end PSU CA(s) is given or can be translated, then the status of all PSU links originating from the given or translated near end PSU CA(s) to all existing far end PSU CA(s) will be reported. Entering the far end PSU CA (optional) will give a more selective and expanded report of a particular PSU link status and other information.

With the exception of Formats 8 through 10, output can be limited to those links with a specific PSU link status.

For gateway protocol handlers (PH) the only invalid input message format is number 3. This format will not yield the expected results.

2. FORMAT

```
[1]    OP:STATUS,PSLNK=a-b[,c];
       ____________________________________________________________

[2]    OP:STATUS,PSLNK,PSUCA=a,FARCA=b[,c];
       ____________________________________________________________

[3]    OP:STATUS,PSLNK,PSU=d-e,FARCA=b[,c];
       ____________________________________________________________

[4]    OP:STATUS,PSLNK,SM=d,FARCA=b[,c];
       ____________________________________________________________

[5]    OP:STATUS,PSLNK,PSUCA=a[,c];
       ____________________________________________________________

[6]    OP:STATUS,PSLNK,PSU=d-e[,c];
       ____________________________________________________________

[7]    OP:STATUS,PSLNK,SM=d[,c];
       ____________________________________________________________

[8]    OP:STATUS,PSLNK,PSU=d-e,UNAV,NOPRINT;
       ____________________________________________________________

[9]    OP:STATUS,PSLNK,PSUCA=a,UNAV,NOPRINT;
```

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```
[10]   OP:STATUS,PSLNK,SM=d,UNAV,NOPRINT;
```

```
[11]   OP:STATUS,PSLNK,PSUCA=a;
```

3. EXPLANATION OF MESSAGE

NOPRINT = This option suppresses the printing of the response message if no PSU link has any channel in UNAV state.

a = Near PSU community address of the PSU link.

b = Far PSU community address of the PSU link.

c = Find only link(s) or channel(s) whose status is this value.

Since Formats 1 through 4 request the status of one specific link, the status will always be printed regardless of the link state. This means that variable 'c' is ignored for these formats.

Valid value(s):

- OFFNORM = Off normal. Includes OOS links and duplex links with only one channel in service.
- OOS = Out-of-service. Links with no members in service.
- UNAV = Unavailable. Channel is manually made unavailable by the SET:PSLNK input message.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = PSU number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:STATUS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP:ST-PSLNK
OP:CONV-PSLNK

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Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):
1187,y PSU LINKS STATUS (where y=PSU number)

OP:ST-PSUCOM

Software Release: 5E21(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to output the detailed status of a packet switching unit common controller (PSUCOM). The main intent is to show details with the single degraded PSUCOM state, which has three distinct flavors: shelf remove, soft reset, PSU peripheral interface data bus (PIDB) synchronization signal fault.

Output can be suppressed with Format 2 and 4. If the IPSSYNC,OFFNORM option is specified, then a list will only be printed for those PSUCOM offnormal synchronization status.

Format 1 requests status for a specific PSUCOM.

Format 2 request offnormal synchronization status for a specific PSUCOM. Output can be suppressed if there's no such offnormal status and noprint option is specified.

Format 3 request status for PSUCOMs on a specific SM or range of SMs.

Format 4 request offnormal synchronization status for PSUCOMs on a specific SM or range of SMs. Output can be suppressed if there's no such offnormal status.

2. FORMAT

```
[1]    OP:STATUS,PSUCOM=a-b-c[,IPSSYNC];
       ----------------------------------------------------

[2]    OP:STATUS,PSUCOM=a-b-c,IPSSYNC,OFFNORM,[NOPRINT];
       ----------------------------------------------------

[3]    OP:STATUS,PSUCOM,SM=a[&&d][,IPSSYNC];
       ----------------------------------------------------

[4]    OP:STATUS,PSUCOM,SM=a[&&d],IPSSYNC,OFFNORM,NOPRINT;
       ----------------------------------------------------
```

3. EXPLANATION OF MESSAGE

`IPSSYNC` = only report iPS PSUCOM PIDB synchronization signal related attributes.

`OFFNORM` = Off normal. This parameter must be used along with IPSSYNC, to report the attributes that demonstrate fault on the iPS PSUCOM PIDB synchronization signal.

`NOPRINT` = No print. This option suppresses printing of the OP:STATUS-PSUCOM output response with no PSUCOM status in an off normal condition.

`a` = SM number or lower limit of a range of SM numbers. A range of SMs can be specified for Formats 3 and 4. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`b` = PSU number.

`c` = Shelf number.

`d` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO SUCH SM` = Input message specified an SM that does not exist.
- `SM UNEQ` = Input message specified an SM that is unequipped.
- `UNIT UNEQ` = Input message specified an SM with no equipped PSU.

`PF` = Printout follows. The request has been accepted. Followed by the OP:ST-PSUCOM output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

`OP:ST-PSUCOM`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):
1186 (PSUCOM)

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OP:ST-QPHLNK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status for quad-link packet switch protocol handler links (QPHLNKs) associated with a particular global switching module (GSM).

Note: One of the following parameters must be specified to limit the scope of the response:
LINK = Produces status for an individual QPHLNK.
QPIPE = Produces status for all QPHLNKs associated with a QPH QPIPE.
QPH = Produces status for all QPHLNKs associated with a QPH.

2. FORMAT

```
OP:STATUS,QPHLNK,(LINK=a-b-c-d-e-f|QPIPE=a-b-c-d-e|QPH=a-b-c-d);
```

3. EXPLANATION OF MESSAGE

`a` = GSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = QPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Quad-link packet switch (QLPS) network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Non-global switching module (NGSM) number, noting only an NGSM-2000 is a valid input. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`OP:STATUS,QPHLNK output message will follow.` Valid value(s) are:

`PF` = The request has been accepted. An OP:STATUS,QPHLNK output message will follow.

`NG - SM UNEQUIPPED` = This response indicates that the input GSM (part of the LINK, QPIPE or QPH specification) is not even an equipped SM.

`NG - NOT A GSM` = This response indicates that the input GSM (part of the LINK, QPIPE or

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QPH specification) is not a provisioned GSM.

`RL – GSM NOT AVAILABLE` = This response indicates that the input GSM (part of the LINK, QPIPE or QPH specification) is not available, because it is isolated or undergoing an initialization. Retry later.

5. REFERENCES

Output Message(s):

```
OP STATUS QPHLNK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-200-116 *5ESS Switch Signaling Gateway Common Channel Signaling*

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OP:ST-QPHPIPE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status for quad-link packet switch protocol handler (QPH) QPIPEs on a HOST global switching module (GSM).

Note: One of the following parameters must be specified to limit the scope of the response:
QPIPE = Produces status for an individual QPH QPIPE.
QPH = Produces status for both QPH QPIPEs on a QPH channel group.
GSM = Produces status of all equipped QPH QPIPEs on a HOST GSM.

2. FORMAT

```
OP:STATUS,QPHPIPE,(QPIPE=a-b-c-d-e[,DETAIL]|QPH=a-b-c-d|GSM=a);;
```

3. EXPLANATION OF MESSAGE

`DETAIL` = Provides location of parent quad-link packet switch time-multiplex switch link (QTMSLNK) and network link interface (NLI) associated with the specified QPH QPIPE, in addition to status.

`a` = GSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet Switch Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = QPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Quad-link Packet Switch (QLPS) network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = The request has been accepted. An OP:STATUS,QPHPIPE output message will follow.

`NG - SM UNEQUIPPED` = This response indicates that the input GSM (possibly part of the QPIPE or QPH specification) is not even an equipped SM.

`NG - NOT A GSM` = This response indicates that the input GSM (possibly part of the QPIPE or QPH

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specification) is not a provisioned GSM.

`RL - GSM NOT AVAILABLE` = This response indicates that the input GSM (possibly part of the QPIPE or QPH specification) is not available, because it is isolated or undergoing an initialization. Retry later.

5. REFERENCES

Output Message(s):

```
OP STATUS QPHPIPE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-200-116 *5ESS Switch Signaling Gateway Common Channel Signaling*

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OP:ST-SCTP

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the status of one or more near endpoint(s) and service selection for the associated session initiation protocol for telephony protocol handler (SIP-T PH) or the status of one or more association(s) and the associated paths. There are 5 formats that are available to produce status reports depending on the specified characteristics. These include:

- A specific endpoint.
- All endpoints in the office.
- A specific association.
- A specific association including the path status.
- All associations in the office.
- All associations in a specified association Set.

2. FORMAT

```
[1]    OP:STATUS,SCTP,NEAREPT=a[,DETAIL];
       _____________________________________________________________

[2]    OP:STATUS,SCTP,NEAREPT,ALL;
       _____________________________________________________________

[3]    OP:STATUS,SCTP,ASSOC=b[,PATHS];
       _____________________________________________________________

[4]    OP:STATUS,SCTP,ASSOC,ALL;
       _____________________________________________________________

[5]    OP:STATUS,SCTP,ASSOCSET=c;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ALL` = Get the status for all the endpoints or associations.

`DETAIL` = Get the status, association set and far endpoint for all the associations assigned to that near endpoint.

`PATHS` = Get the paths status for the association.

`a` = Endpoint name. This is a character string (<=20) that is provisioned on RC/V View 33.19 (SCTP NEAR END POINT).

`b` = Association number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Association set name. This is a character string (<=20) that is provisioned on RC/V View

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33.23 (ASSOCIATION SET).

4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:
- INVALID NEAR ENDPOINT NAME = Specified endpoint not provisioned on any SM.
- INVALID ASSOCIATION ID = Specified association not provisioned on any SM.
- INVALID ASSOCIATION SET NAME = Specified association set not provisioned on any SM.
- DATABASE ERROR = Database error.
- INTERNAL ERROR = Unknown request type.

PF = Printout follows. Followed by the OP:ST-SCTP output message.

RL = Retry later. May also include:
- AM OVERLOAD = AM in real-time overload. Unable to process request.
- CONFLICTING REQUEST RUNNING = Cannot process request until running OP:ST-SCTP request completes
- FAILED TO CREATE PROCESS = The process that would service the request could not be created, or did not receive the request, probably due to system load.
- SM INACCESSIBLE = SM is not available (for example, isolation, initialization, and so forth).
- SYSTEM ERROR = System error encountered. Please retry later.
- TOO MANY PROCESSES ACTIVE = A process to service the request cannot be created because the maximum number of active maintenance processes has been reached.

5. REFERENCES

Output Message(s):

OP:ST-SCTP

Input Appendix(es):

APP:RANGES

RC/V View(s):

33.19	SCTP NEAR END POINT
33.23	ASSOCIATION SET

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OP:ST-SERV

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the service selection status of a processor group by either specifying a processor group, range of processor groups or a processor in a processor group.

The output from this request will provide the service selection state, ethernet link state and ping state of each processor in the processor group or groups requested.

2. FORMAT

```
OP:STATUS,SERV,{PCRGRP={a-b[&&b]|PSUPH=a-c-d-e};
```

3. EXPLANATION OF MESSAGE

`a` = Global services module (GSM) on which the processor group is equipped.

`b` = Processor group. Valid value(s):
- `b` = A specific processor group on a GSM.
- `b&&b` = Range of processor groups on a GSM.

`c` = Packet switching unit (PSU) number.

`d` = PSU shelf number.

`e` = PH position number.

4. SYSTEM RESPONSE

`?D` = Input data error.
`PF` = Printout follows.
`RL` = Retry later.

5. REFERENCES

Output Message(s):

`OP:ST-SERV`

Input Appendix(es):

`APP:RANGES`

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OP:ST-SIP

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the status information be output for one or more session initiation protocol (SIP) packet group(s), service group(s), and/or user datagram protocol (UDP) paths supporting SIP.

There are multiple versions of the input message:

- Request the information for a single SIP service group (trunk group number).
- Request the information for a single SIP packet group (and its associated SIP service group, if provisioned).
- Request the information for a single SIP UDP path (and its associated SIP packet group and service group, if provisioned).
- Request the information for a single SIP packet group supported by a stream control transmission protocol (SCTP) association set (and its associated SIP service group, if provisioned).
- Request the information for all SIP service groups, packet groups, and UDP paths in the office.
- Request the information for all SIP service groups that are in a given state.
- Request the information for all SIP service groups, packet groups, and UDP paths provisioned on a particular SIP global switching module (GSM).
- Request the information for all SIP service groups, packet groups, and UDP paths provisioned on a particular SIP protocol handler (PH) processor group (PCRGRP).
- Request the information for all SIP service groups and packet groups provisioned on a particular bearer network.

2. FORMAT

```
[1]    OP:STATUS,SIP,TGNUM=a;
       ____________________________________________________________

[2]    OP:STATUS,SIP,PKTGRP=b;
       ____________________________________________________________

[3]    OP:STATUS,SIP,UDPPATH=c;
       ____________________________________________________________

[4]    OP:STATUS,SIP,ASSOCSET=d;
       ____________________________________________________________

[5]    OP:STATUS,SIP,ALL;
       ____________________________________________________________

[6]    OP:STATUS,SIP,STATE={AVAIL|UNAVAIL};
       ____________________________________________________________

[7]    OP:STATUS,SIP,GSM=e;
       ____________________________________________________________

[8]    OP:STATUS,SIP,PCRGRP=e-f;
```

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```
[9]    OP:STATUS,SIP,BNID=g;
```

---

3. EXPLANATION OF MESSAGE

`a` = SIP service group number.

`b` = SIP packet group number.

`c` = SIP UDP path number.

`d` = SIP SCTP association set name.

`e` = SIP global switching module number.

`f` = SIP PH processor group number on SIP GSM.

`g` = Internet protocol (IP) bearer network identifier.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ASSOCSET UNEQUIPPED` = Requested SIP SCTP association set name is not provisioned in the office.
- `BNID UNEQUIPPED` = Requested bearer network number is not provisioned in the office.
- `NO SIP ON BNID` = There are no SIP packet groups assigned to the requested bearer network number.
- `NO SIP ON PCRGRP` = No SIP UDP paths are provisioned on the specified SIP PH processor group.
- `NOT A SIP GSM` = Requested switching module number is not a SIP GSM.
- `NOT A SIP PKTGRP` = Requested packet group number does not use SIP signaling.
- `NOT A SIP TGNUM` = Requested trunk group number is not a SIP service group.
- `PCRGRP UNEQUIPPED` = Requested SIP PH processor group number is not provisioned on the specified GSM.
- `PKTGRP UNEQUIPPED` = Requested SIP packet group number is not provisioned in the office.
- `SIP UNEQUIPPED` = There is no SIP signaling provisioned in the office.
- `TGNUM UNEQUIPPED` = Requested SIP service group number is not provisioned in the office.
- `UDPPATH UNEQUIPPED` = Requested UDP path number is not provisioned in the office.

`PF` = Followed by the OP:ST-SIP output message.

`RL` = Retry later. May also include:
- `AM OVERLOAD` = The administrative module is in overload.
- `CMP OVERLOAD` = The communications module processor is in overload.
- `[DB] SYSTEM ERROR` = An internal database or software error was encountered.
- `OSSENDMSG FAILURE` = The operating system could not send the request to the

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appropriate process.

5. REFERENCES

Input Message(s):

```
OP:ST-SCTP
OP:ST-SERV
STP:ST-SIP
```

Output Message(s):

```
OP:ST-SCTP
OP:ST-SERV
OP:ST-SIP
REPT:SIP
STP:ST-SIP
```

Input Appendix(es):

```
APP:RANGES
```

RC/V View(s):

5.1	TRUNK GROUP
5.71	PACKET GROUP DEFINITION
5.80	SIP-T GLOBAL SM
33.15	BEARER NETWORK DEFINITION
33.16	SIP-T PROCESSOR GROUP
33.23	ASSOCIATION SET
33.24	UDP PATH DEFINITION

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OP:ST-SUM

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a 16-bit checksum for a specified file, and prints the number of blocks in the file. This message is typically used to look for bad spots on a disk or to confirm that a file sent using a transmission line has been completely received.

2. FORMAT

```
OP:STATUS,SUM,FN="a";
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-SUM output message.

5. REFERENCES

Input Message(s):

```
OP:ST-DISKUSE
OP:ST-LISTDIR
```

Output Message(s):

```
OP:ST-DISKUSE
OP:ST-LISTDIR
OP:ST-SUM
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(CRAFT FM 01)

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OP:ST-TRFC30

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests the status of all sections of the 30-minute traffic report.

2. FORMAT

```
OP:STATUS,TRFC30;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ST-TRFC30 output message.

5. REFERENCES

Input Message(s):

```
ALW:TRFC30
INH:TRFC30
OP:TRFC30
```

Output Message(s):

```
OP:ST-TRFC30
```

Input Appendix(es):

```
APP:TRFC-SECTION
```

Output Appendix(es):

```
APP:TRFC-SECTION
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:ST

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the output of the print mode, overload status, and initialization summary information for the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or packet switching unit protocol handler (PSUPH).

If the status of an out-of-service PSUPH or PI is requested, only the information stored in the switching module (SM) will be printed. The unequipped units will report configuration status of "UNEQ" only.

2. FORMAT

```
OP:STATUS,{PSUPH=a-b-c-d|CHNG=a-b-c-e|MCTSI=a-f,PI};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number.

`b` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because the SM is isolated or the equipment does not exist.

`NO` = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

`PF` = Printout follows. The message was accepted and a printout will follow.

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5. REFERENCES

Input Message(s):

```
CHG:PRNTMODE
```

Output Message(s):

```
OP:ST
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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OP:STAT

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the status of automatic customer station rearrangement (ACSR) enqueuing and dequeueing be printed. To show whether the ACSR queue is full or not, and/or whether customer originated recent change (CORC) is allowed or inhibited.

2. FORMAT

```
OP:STAT,{CORC|ACSR|CORC,ACSR};
```

3. EXPLANATION OF MESSAGE

`CORC` = Print the status for CORC.

`ACSR` = Print the statuses for ACSR.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:STAT output message.

5. REFERENCES

Input Message(s):

```
ALW:ACSR
INH:ACSR
```

Output Message(s):

```
OP:STAT
```

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OP:STATUS-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT). Output will include trunk, line, data link, or OSPSPORT identification (logical and terminal names), primary status, the time the primary status went into effect, and any pending status(es) associated with the trunk, line, data link, or OSPSPORT.

2. FORMAT

```
OP:STATUS,a[,CH=b];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Equipment number or identifier. Valid value(s):

AIUEN=j-c^2-d^2-e^2	HOBIS=c-d	PKTDN=g
AP=c-d	ILEN=j-l^1-m^1-n^1	PLTEN=j-h^2-i^2-j^2-k^2
AQ=c-d	INEN=j-o^1-m^1-n^1	PRIGRP=j^1
AQEST=g	LCEN=j-a^2-z^1-q	PSUEN=j-v^1-w^1-x^1-y^1
AQM=c-d	LCKEN=j-b^2-p-t^1-u^1	RAS=c-d
BST=h-i	LEN=j-o-r-s-t-u	RTRS=c-d
DASC=c-d	MISLNK=c-d	SLEN=j-a^1-b^1-c^1
DEN=j-k-l-m	MLHG=x-y	TEN=j-d^1-e^1-f^1-g^1
DN=g[-n]	NEN=j-o^1-p^1-f^2-q^1-r^1-g^2-s^1	TKGMN=h^1-i^1
EIS=e-f	OAPF=z	XDB=c-d
HOBICR=c-d	OAPO=h	XDPF=z
HOBICV=c-d	OIUEN=j-l^2-m^2-n^2-o^2-p^2-q^2-k^2	XDPO=h
	OPT=h-i	

b = Channel identifier [D (default), B1, or B2]. If the default or the D-channel is specified, the entire DSL will be identified. If a channel other than the D-channel is specified, only that channel will be identified. Used only for digital subscriber lines (DSLs), data links, and OSPSPORTs.

c = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`f` = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Telephone number.

`h` = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

`n` = Member number of the multi-line hunt group (MLHG) or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of 1 will give the status of the lead line and a member number of 2 will give the status of the associate line. If no member number is specified, for 1-DN LTSB, the status of both lines will be given. If no member number is specified, for 2-DN LTSB, the status of the line associated with the DN entered will be given.

`o` = Line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Line group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Line card. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Switch. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Level. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`x` = Multi-line hunt group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Digital carrier line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Remote terminal (RT). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Trunk group or Bearer Independent Call Control (BICC) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Trunk member or normalized Call Instance Code (CIC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Primary rate interface group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`q`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = Integrated services line unit model 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`i`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[2] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[2] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[2] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[2] = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[2] = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[2] = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[2] = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and is followed by the OP:ST-PORT output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:LIST
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
```

Output Message(s):

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```
OP:ST-PORT
```

Input Appendix(es):

```
APP:RANGES
```

OP:STATUS-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT). Output will include trunk, line, data link, or OSPSPORT identification (logical and terminal names), primary status, the time the primary status went into effect, and any pending status(es) associated with the trunk, line, data link, or OSPSPORT.

2. FORMAT

```
OP:STATUS,a[,CH=b];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Equipment number or identifier. Valid value(s):

AIUEN=j-c^2-d^2-e^2
AP=c-d
AQ=c-d
AQEST=g
AQM=c-d
ATMPP=j-v^1-v^2-w^2
BST=h-i
DASC=c-d
DEN=j-k-l-m
DN=g[-n]
EIS=e-f
HOBICR=c-d
HOBICV=c-d
HOBIS=c-d
ILEN=j-l^1-m^1-n^1
INEN=j-o^1-m^1-n^1
LCEN=j-a^2-z^1-q
LCKEN=j-b^2-p-t^1-u^1
LEN=j-o-r-s-t-u
MISLNK=c-d
MLHG=x-y
NEN=j-o^1-p^1-f^2-q^1-r^1-g^2-s^1
OAPF=z
OAPO=h
OIUEN=j-l^2-m^2-n^2-o^2-r^1-g^2-k^2
OPT=h-i
PKTDN=g
PLTEN=j-h^2-i^2-j^2-k^2

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```
PRIGRP=j[1]
PSUEN=j-v[1]-w[1]-x[1]-y[1]
RAS=c-d
RTRS=c-d
SLEN=j-a[1]-b[1]-c[1]
TEN=j-d[1]-e[1]-f[1]-g[1]
TKGMN=h[1]-i[1]
VANA=j-r[2]
VBRI=j-s[2]
VTRK=j-t[2]-u[2]
XDB=c-d
XDPF=z
XDPO=h
```

b = Channel identifier [D (default), B1, or B2]. If the default or the D-channel is specified, the entire DSL will be identified. If a channel other than the D-channel is specified, only that channel will be identified. Used only for digital subscriber lines (DSLs), data links, and OSPSPORTs.

c = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Telephone number.

h = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

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`n` = Member number of the multi-line hunt group (MLHG) or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of 1 will give the status of the lead line and a member number of 2 will give the status of the associate line. If no member number is specified, for 1-DN LTSB, the status of both lines will be given. If no member number is specified, for 2-DN LTSB, the status of the line associated with the DN entered will be given.

`o` = Line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Line group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Line card. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Switch. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Level. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Multi-line hunt group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Digital carrier line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Remote terminal (RT). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`f`[1] = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Trunk group or bearer independent call control (BICC) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Trunk member or normalized call instance code (CIC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Primary rate interface group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`y`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = Integrated services line unit model 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[2] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[2] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[2] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[2] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[2] = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[2] = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`s`[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[2] = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[2] = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the OP:ST-PORT output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:LIST
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
```

Output Message(s):

```
OP:ST-PORT
```

Input Appendix(es):

```
APP:RANGES
```

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OP:STATUS-PS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests output of the switching module (SM) packet switch unit (PSU) timeslot usage (PSUTSCOUNT) for nailups. The types of nailups used for packet transport are inter-SM (ISMNAIL), internal protocol (IP) trunk, extended digital subscriber line (EDSL), X.25 access on T1 (XAT) trunk, X.75 trunk, X.75' trunk, remote integrated services line unit (RISLU), and common channel signaling (CCS). In addition to these nailups, the PSU peripheral interface data bus (PIDB) time-slots reserved for the remote digital test access (RDTA) feature are included in the output.

The network side TSIU timeslots and PIDB timeslots used per PSU shelf are included for packet pipes (PKTPIPE) and the PIDB timeslots used per PSU shelf are included for speech handler channel groups (SHCG). Since a packet pipe (which is composed of packet pipe members on a DFI connected to a packet pipe port on a PSU) can be inter-SM, the network side TSIU timeslots for the packet pipe members are included in the PKTPIPE count for the SM that contains the packet pipe member. This SM may or may not have a PSU but the packet pipe members were included as they are connected to a PSU which resides in another SM. The output provides network side timeslot interchange unit (TSIU) timeslot usage. This corresponds to time multiplexed switch (TMS) timeslot usage in a local switching module (LSM), host switching module (HSM), optically remoted module (ORM), and/or two mile remoted module (TRM), noting the HSM count will include usage due to ISM nailups terminating on child remote switching modules (RSMs). The output also provides peripheral interface data bus (PIDB) timeslot usage for each packet switch unit (PSU) shelf. The intra-cluster link (ICL) timeslot usage by ISM nailups for RSMs within the same cluster is also provided.

2. FORMAT

```
OP:STATUS,PSUTSCOUNT,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number or the lower limit of a range of SM numbers for which timeslot usage is desired.

`b` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The SM has no integrated services digital network (ISDN) nailups associated with it.

`PF` = Printout follows. The request has been accepted. Followed by the OP:STATUS-PS output message.

5. REFERENCES

Output Message(s):

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```
OP:STATUS-PS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x *Asserts*

OP:STBY

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all standby administrative module (AM) hardware units. This format provides a list of all standby units of a particular type.

2. FORMAT

```
OP:STBY[,{a[=b][,c=d]}];
```

3. EXPLANATION OF MESSAGE

`a` = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:STBY output message.

`RL` = Retry later.

`?D` = Data field error.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
```

Output Message(s):

```
OP:CFGSTAT
OP:STBY
```

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Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

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OP:SYSSTAT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a copy of the off-normal report as shown on the Master Control Center (MCC) display pages for system inhibits, administrative module (AM), communication module (CM), communication module processor (CMP), and switching module (SM) summarizing pages.

If none of the options are specified, this message will request printing of current off-normal conditions in all processors throughout the system. If any of the options are specified, the output message will contain only the data for the specified processors.

2. FORMAT

```
OP:SYSSTAT[,SYS][,AM][,CM][,CMP=a][,SM=b[&&c][,LSM][,HSM][,RSM][,ORM]
[,TRM][,DRM]][,UCL];
```

3. EXPLANATION OF MESSAGE

`AM` = Report off-normal conditions corresponding to the AM inhibit indicators on the AM summary MCC display page.

`CM` = Report off-normal conditions corresponding to the CM hardware check inhibit indicator and CM isolation indicator on the CM summary MCC display page.

`CMP` = Report off-normal conditions corresponding to the CMP inhibit indicators on the CMP summary MCC display page.

`DRM` = Select modules of the type distinctive remote switching module.

`HSM` = Select modules of the type host switching module.

`LSM` = Select modules of the type local switching module.

`ORM` = Select modules of the type optical remote switching module.

`RSM` = Select modules of the type remote switching module.

`SM` = Report off-normal conditions corresponding to the SM inhibit indicators on the SM summary MCC display page.

`SYS` = Report off-normal conditions corresponding to the system inhibit indicators on the system inhibits MCC display page.

`TRM` = Select modules of the type two-mile optical remote switching module.

`UCL` = Unconditionally print the status of all equipped SMs in the office. Without the UCL parameter specified, only the status of off-normal equipped SMs and CMPs is reported.

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`a` = CMP number.

`b` = SM number or lower limit of a range of SM numbers. When a range of SM numbers is specified, only valid numbers in the range will be processed. The range of numbers need not start or end with valid SMs.

`c` = Upper limit of a range of SM numbers.

NOTE: The default of the above options will request printing of current off-normal conditions for the system AM, CM, CMPs and SMs. If any of the above options are specified, the output message will contain only the data for the specified processors.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because an illegal SM or CMP number or invalid range/type combination was specified.

`PF` = Printout follows. The message was accepted and is followed by the OP:SYSSTAT-SUM output message which specifies the current off-normal conditions for the specified modules.

5. REFERENCES

Output Message(s):

```
OP:SYSSTAT-SUM
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

110	SYSTEM INHIBITS
114	EQUIPPED SM STATUS SUMMARY
115	COMMUNICATION MODULE SUMMARY
1010	SM STATUS
1460	SM DATA LINK DSLS
1480	SM AP DATALINK DSLS
1800	INH & RCVY CNTL
1850/1851	CMP INH & RCVY CNTL

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57. OP:T

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OP:TAG

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a circuit pack return tag is to be printed based on the information taken from the failing diagnostics on the switch. If arguments are specified, then a tag will be printed using information from the last failing diagnostic that matches the specified arguments.

2. FORMAT

```
[1]    OP:TAG[,a]

[2]    OP:TAG[,ARG1=b[,ARG2=b[,ARG3=b[,ARG4=b]]]]
```

3. EXPLANATION OF MESSAGE

`a` = ALL or BLANK; choose one or omit. "ALL" will dump a list of all failing diagnostics that are available for formatting. "BLANK" will format and print a blank circuit pack return tag. If no arguments are specified, the last failing diagnostics will be formatted and the information printed as a circuit pack return tag.

`b` = Arguments that describe which failing diagnostic is to be used to format the tag. A maximum of four arguments may be used for tag selection. If the arguments specified do not match any of the failing diagnostics stored in the TAGLOG, a list of failing diagnostics that are available for tag selection will be dumped.

4. SYSTEM RESPONSE

`NG` = No good. The request is denied.

`PF` = Printout follows. Output message will follow with completion status.

5. REFERENCES

Output Message(s):

`OP:TAG`

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OP:TCPIP-ARPDMP

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

The transmission control protocol/internet protocol (TCP/IP) Address resolution protocol (ARP) cache input message to show the ARP cache entries of a protocol handler (PH).

2. FORMAT

```
OP:TCPIP:ARPDMP,CHNG=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number.

`b` = Packet switching unit (PSU) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because the SM is isolated or the equipment does not exist. May also include:
- `NO ARP ENTRIES FOUND` = No entries were found in the ARP Cache on the PH requested.

`PF` = Printout follows. The message was accepted and a printout will follow.

5. REFERENCES

Output Message(s):

`OP:TCPIP-ARPDMP`

Input Appendix(es):

`APP:RANGES`

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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OP:TCPIP-RTDMP

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

The TCP/IP Route dump input message is used to verify TCP/IP routing tables in an SM or PH.

2. FORMAT

```
[1]    OP:TCPIP:RTDMP,SM=a

[2]    OP:TCPIP:RTDMP,CHNG=a-b-c-d
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number.

`b` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because the SM is isolated or the equipment does not exist. May also include:
- `NO ROUTE TABLES ENTRIES FOUND` = No entries were found in the ROUTE TABLE on the SM or PH requested.

`PF` = Printout follows. The message was accepted and a printout will follow.

5. REFERENCES

Output Message(s):

`OP:TCPIP-RRTD`

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):

System Maintenance Requirements and Tools

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OP:TERACNTS-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists. If a specific machine detected interoffice irregularity (MDII) is specified, only entries related to that MDII are printed.

2. FORMAT

```
OP:TERACNTS,a[,MDII=d];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Unit. Valid value(s):

```
DEN=e-j-k-l
ILEN=e-r-n-o
INEN=e-s-n-o
NEN=e-s-t-x-u-v-y-w
PLTEN=e-z-a1-b1-c1
RVPT=e-p-g-q;
SLEN=e-m-n-o
TEN=e-f-g-h-i
TKGMN=b-c
UTD=e-p-g-q;
UTG=e-p-g-q;
VTRK=e-d1-e1
```

b = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Member number in trunk group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = MDII type (refer to the REPT:MDII output message for complete enumeration).

e = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of

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the Input Messages manual.

`h` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Channel circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = DFI channel number. A DFI-2 has 48 channels. Channel ranges are:
1-24 = Channels 1-24 of facility T1A.
25-48 = Channels 1-24 of facility T1B.

Otherwise, only a range of 1-24 is allowed. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Digital service unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Data group (DG). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`x` = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Tributary (T1FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Virtual Trunk Facility (FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Virtual Trunk Channel (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:TERACNTS output message.

5. REFERENCES

Output Message(s):

```
OP:TERACNTS
REPT:MDII
```

Input Appendix(es):

```
APP:RANGES
```

OP:TERACNTS-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists. If a specific machine detected interoffice irregularity (MDII) is specified, only entries related to that MDII are printed.

2. FORMAT

```
OP:TERACNTS,a[,MDII=d];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Unit. Valid value(s):

```
DEN=e-j-k-l
ILEN=e-r-n-o
INEN=e-s-n-o
NEN=e-s-t-x-u-v-y-w
OIUEN=e-f[1]-g[1]-h[1]-i[1]-v-y-w
PLTEN=e-z-a[1]-b[1]-c[1]
RVPT=e-p-g-q;
SLEN=e-m-n-o
TEN=e-f-g-h-i
TKGMN=b-c
UTD=e-p-g-q;
UTG=e-p-g-q;
VTRK=e-d[1]-e[1]
```

b = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Member number in trunk group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = MDII type (refer to the REPT:MDII output message for complete enumeration).

e = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`g` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Channel circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = DFI channel number. A DFI-2 has 48 channels. Channel ranges are:

1-24 = Channels 1-24 of facility T1A.
25-48 = Channels 1-24 of facility T1B.

Otherwise, only a range of 1-24 is allowed. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Digital service unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Data group (DG). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

x = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Tributary (T1FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Virtual Trunk Facility (FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Virtual Trunk Channel (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Protection Group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the OP:TERACNTS output message.

5. REFERENCES

Output Message(s):

```
OP:TERACNTS
REPT:MDII
```

Input Appendix(es):

```
APP:RANGES
```

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OP:TESTSET

Software Release: 5E15 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the set of test sets defined in the WNC and their current state be listed out.

2. FORMAT

```
OP:TESTSET
```

3. EXPLANATION OF MESSAGE

Note: There is no input parameters for the input message.

4. SYSTEM RESPONSE

`RL` = Retry Later. The request has been denied, probably due to system load.

`PF` = Printout follows. The request has been accepted and is followed by an ASGN:TESTSET output message.

5. REFERENCES

Other Manual(s):
230-701-100 *Air Extension[SM] Reference Guide*
235-701-120 *Air Extension[SM] User Guide*

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OP:TFTP

Software Release: 5E21(1) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To check the status of a trivial file transfer protocol (TFTP) server running on a protocol handler (PH). TFTP is a standard protocol defined by RFC 1350. It is used for transferring data over user datagram protocol (UDP) over internet protocol (IP).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. It should never be used without expert technical assistance.

2. FORMAT

```
OP:TFTP,SERVERCHNG=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number for server PH. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel group number for server PH. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted. May also include:
- `SERVER NOT RUNNING` = No TFTP server is running using a CHNG on this SM.
- `SERVER PH INCORRECT` = No TFTP server is running on the specified channel group.

`PF` = Printout follows. The message was accepted and a printout will follow.

5. REFERENCES

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Input Message(s):

```
ALW:TFTP
INH:TFTP
```

Output Message(s):

```
ALW:TFTP
INH:TFTP
OP:TFTP
REPT:TFTP
```

Input Appendix(es):

```
APP:RANGES
```

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OP:TGC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all trunk group controls (TGCs) applied to a particular trunk group, all TGCs of a particular type, or all TGCs in the office.

2. FORMAT

```
OP:TGC[,TG=a|,CNTL=b];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group identifier. The default is the total office.

`b` = Control type. Valid value(s):

- `CANT` = Manual cancel-to control.
- `SKIP` = Manual skip control.
- `CRO` = Manual cancel rerouted overflow control.
- `RR` = Manual reroute control.
- `CANF` = Manual cancel-from control.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.

`PF` = Printout follows. Followed by the OP:TGC output message.

`RL` = Retry later. May also include:

- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:TGC
SET:RR
SET:TGC
```

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Output Message(s):

```
OP:TGC
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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OP:TGCNT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Reports (outputs) the total number of trunks in a trunk group, the number of in-service trunks, the number of out-of-service (OOS) trunks, and an indicator if the counts may be invalid. This message may be used to display the above information for a single specified trunk group, a range of trunk groups, or all trunk groups. In the case of a range or all trunk groups, the above information will be for trunk groups that have OOS trunks. OOS CADN is not counted towards this OOS count.

2. FORMAT

```
OP:TGCNT[,TG=a[&&b]][,PRINT];
```

3. EXPLANATION OF MESSAGE

`PRINT` = Print the output from this input message at the ROP in addition to its normal destinations(s). When PRINT is not specified (the default), the output is not printed on the ROP, unless the request comes from Master Control Center (MCC).

`a` = Trunk group (TG) number or lower limit of a range of TG whose count is desired. Default prints all TGs with an OOS count.

`b` = Upper limit of a range of TG.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:TGCNT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`OP:AML`

Output Message(s):

`OP:TGCNT`

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OP:TLPNOTE

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the specified communication module (CM) or switching module (SM) trouble locating procedure (TLP) note be printed. This message includes all equipment types except those listed in the output message appendix APP:TLPNOTE under section AM TLP NOTES.

2. FORMAT

```
OP:TLPNOTE=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLP note number. Refer to the APP:TLP-NOTE appendix in the Appendixes section of the Output Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Identifier does not correspond to a currently defined note number.

`PF` = Printout follows. Followed by the OP:TLP-NOTE output message.

5. REFERENCES

Output Message(s):

```
OP:TLPNOTE
```

Output Appendix(es):

```
APP:TLP-NOTE
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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OP:TPC

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests translation point codes (TPCs) for the specified translation type (TT) be displayed.

2. FORMAT

```
OP:TPC:TYPE=a;
```

3. EXPLANATION OF MESSAGE

`a` = A specific translation type or "ALL". Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. ALL means that TPCs are listed for all equipped translation types.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:TPC output message.

5. REFERENCES

Input Message(s):

```
CHG:SRVT
EXC:SRVT
```

Output Message(s):

```
CHG:SRVT
EXC:SRVT
OP:TPC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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OP:TR

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all trunk reservation (TR) controls that are currently assigned, or lists the TR control for a single trunk group.

2. FORMAT

```
OP:TR[,TG=a];
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group (TG) number, the default is to list all trunk groups that have a TR control assigned.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:TR output message.

`RL` = Retry later. May also include:
- `CONFLICTING REQUEST` = A similar request is being processed utilizing necessary resources.
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
ALW:TR
ASGN:TR
CLR:TR
INH:TR
SET:TROVRD
CLR:TROVRD
```

Output Message(s):

```
ALW:TR
ASGN:TR
CLR:TR
INH:TR
OP:TR
SET:TROVRD
```

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```
CLR:TROVRD
```

Other Manual(s):
235-190-101 *Business and Residence Modular Features*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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OP:TRACE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a listing of the status of tracing and the settings of the trace detail flags for the various subsystems.

2. FORMAT

```
OP:TRACE[:DETD];
```

3. EXPLANATION OF MESSAGE

The DETD keyword requests that all the subsystems and detail flags be printed. If the DETD keyword is absent, only the subsystems with non-zero flags will be printed.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:TRACE output message.

`RL` = Retry Later. The OP:TRACE input message cannot execute at this time. The trace process traffic diversion terminal process (TDTP) is not active.

5. REFERENCES

Input Message(s):

```
ALW:TRACE
INH:TRACE
SET:TRACE
```

Output Message(s):

```
ALW:TRACE
INH:TRACE
OP:TRACE
REPT:TRACE
SET:TRACE
```

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OP:TRAP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that status information be obtained regarding active, pending, terminated, aborted, inhibited or completed traps.

2. FORMAT

```
[1]    OP:TRAP:ID=a[,RTDSP={Y|N}|,LFORM={Y|N}][,DEST=c];

[2]    OP:TRAP[,LFORM={Y|N}][,DEST=c];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`LFORM` = Long form. Print detailed status information for the trapped messages. Information will be given regarding the trap parameters and associated values that were given in the SET:TRAP input message.

`N` = No, turn off the option.

`RTDSP` = Real-time display. Print trapped messages in real-time to the specified output class. The default value is what was specified in the SET:TRAP input message for this field.

`Y` = Yes, turn on the option.

`a` = Trap identification number.

`c` = Destination output class (1-255). The default output class is the class specified in the SET:TRAP input message for this trap ID. Refer to the APP:MSGCLS appendix in the Appendixes section of the Output Messages manual for a cross reference between numeric value (destination class) and ECD destinations.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:TRAP output message.

5. REFERENCES

Input Message(s):

```
ALW:TRAP
```

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```
INH:TRAP
SET:TRAP
STOP:TRAP
```

Output Message(s):

```
OP:TRAP
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)

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OP:TRC

Software Release: 5E15 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests the printing of all data collected for a traced call. It results in a series of OP:TRC output messages containing hexadecimal dumps of the collected data.

2. FORMAT

```
OP:TRC:[PID=a-b-c][,STRUCTS=d][,DN=e];
```

3. EXPLANATION OF MESSAGE

`PID` = Process ID (PID) of the process controlling a traced connection. All messages describing one connection of a call will have the same PID. If no PID is specified, the trace data for all connections related to this call will be printed. The PID can be obtained from a TRC:UTIL output message.

`a` = Process number of the PID.

`b` = Switching module (SM) number of the PID.

`c` = Uniqueness number of the PID.

`d` = The data structures to be printed. Valid value(s):

- `ACCS` = Print the data blocks associated with an Operator Services Position System (OSPS) automated calling card service (ACCS) call. These data blocks include the ACCS data block (ACCSDB) and the ACCS query data block (QRYDB).
- `ALCB` = Print the access link control block (ALCB) associated with the packet utility call trace.
- `ALL` = Print all of the trace data for a connection of the call, which includes all of the data structures. This is the default.
- `APB` = Print the associated process blocks (APB).
- `BST` = Print the data blocks associated with an OSPS directory assistance (DA) operator position basic services terminal (BST). The blocks dumped are the call loop data block (LOOPDB), which contains information concerning a DA call at the operator position. The operator position data block (POSDB), which contains the operator status and the supplementary protocol data block (SPB), contains data communications information concerning the integrated services digital network (ISDN) digital subscriber line (DSL) connected to the BST.
- `CHAN` = Print the channel control block (CCB) contents, and its related source channel data block (CHDB), circuit queuing block (CQB), DS0 data block (DS0B), and PIDB time slot block (PTSB) in an OP:TRC-CHAN output message.
- `CKT` = Print circuits used by the traced call. They are represented by a circuit data

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block common (CDBCOM) and its associated channel circuit data block (RLCHAN) relations. The result is an OP:TRC-CKT output message for each CDBCOM.

`CLDB` = Print the call leg data blocks (CLDB).

`COIN` = Print the data block associated with the automated coin service terminal process (COINOT) for an OSPS call.

`CONFCKT` = Print the data blocks associated with a conference circuit connection. The data blocks dumped are the CCBs, the channel data blocks (CHDBs), the CDBCOMs, the path data blocks (PHDBs), the sink and source time slot data blocks (TSDBs), and the process control block linkage area (PCBLA) of the conference circuit.

`CR` = Print the call record (CR) associated with the originator in an OP:TRC-CR output message.

`CV` = Print the data block associated with a vectored call. This data block contains information gathered from the call vectoring state (CV_STATE) relation tuple associated with the vectored call.

`DISP` = Print the display data block (DISPDB).

`EIS` = Print the external information system (EIS) data blocks when the call at the position is associated with an EIS. These include: EISCALL, EIS_LNK and EISLKSEL.

`HLSC` = Print the list of high level service circuits for ringing and the per call test, and the peripheral control (PC) foreground data area- PCCCBFG. These will be in an OP:TRC-HLSC output message.

`ISDN` = Print the list of feature data blocks associated with an integrated services digital network call.

The following data blocks are printed in the OP:TRC-ISDN output message: D-channel application linkage block (DALB), and the PRI group status data block (PRISTAT).

The following data blocks are printed in the OP:TRC-ISDN2 output message: terminal equipment data block (TEDB), terminal endpoint identifier linkage area (TEILA), business and residential custom services data block (BRCSDB), and automatic call distribution position data block (ACDPOSDB).

`LCNx` = Print the logical channel control block (LCCB) associated with a specific active logical channel number (LCN) for packet utility call trace. Up to 127 active logical channel numbers may exist for a packet utility trace. The exact LCN must be specified. Where '`x`' is 1 through 127. (LCN0, LCN1, LCN2...LCN127).

`MDB` = Print the model data blocks.

`NTWK` = Print the network path descriptors, the path data blocks (PHDBs), and the sink and source time slot data blocks (TSDBs) in an OP:TRC-NTWK output message.

`OPT` = Print the data blocks associated with an OSPS toll and assistance (T&A) operator position, operator position terminal (OPT). The three call loop data blocks (TALOOPDB) are dumped, which contain information concerning the T&A calls at the operator position. The T/A operator position data block (TAPOSDB), which contains the operator status and the supplementary protocol data block (SPB), contains data communications information concerning the ISDN DSL connected to the OPT. Also prints the EIS data blocks when the call at the position is associated with an external information

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system.

PKL2DATA = Print the level 2 collected data associated with the packet utility call trace. These include: D-channel control block (DCCB) and the logical link control block (LLCB).

PKTSUM = Print the summary information of the packet utility call trace for B- and D-channels. This includes the local and remote directory numbers, call type, call connection, destination SM, and destination port or trunk group for each active LCN. For inter-switch calls, the trunk group number on the destination SM will be displayed. For intra-SM and inter-SM calls, the port number on the destination SM will be displayed.

PROC = Print the process control block linkage area (PCBLA), the port link area (PORTLA), D-channel process block (DPB), and LTSB data block (DLTSBDB) [for line time slot bridging (LTSB) ports only] in an OP:TRC-PROC output message.

SHDN = Print the data blocks associated with a shared directory number (SHDN) call. These include the analog data block (ADB), shared call model data block (SCMDB), and logical termination busy/idle status (LTMSTAT).

SRVOT = Print the call and service related data for OSPS listing services (LS). The block dumped is SRVOT, which is used by originating treatment (OT) and the EIS interface to store data that must be saved through OSDS restarts.

WRLS = Prints the data associated with a wireless call. It includes the *Autoplex®* call table (APXCTBL), the *Autoplex®* feature data block, and the general purpose annex data block(s) (GPAXDB),

e = Directory number. For packet call trace only.

4. SYSTEM RESPONSE

NG = No good. May also include:
- BAD OPTION = Incompatible options were selected.
- INTERNAL ERROR = An unexpected condition was encountered during processing.
- INVALID DN = An invalid DN was entered.
- NO DATA COLLECTED = The requested data was not collected.
- PID = There is no data for the given process ID.

PF = Printout follows. May also include:
- EVENT n = The requested trace data (identified by event number 'n') will be printed out as a series of OP:TRC output messages that all have the given event flag. The data printed reflects the most recent trace data collected.

5. REFERENCES

Input Message(s):

TRC:UTIL

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Output Message(s):

```
OP:TRC-EVENT
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-105-110 *Switch Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance Procedures*
235-190-115 *Local and Toll System Features*
235-600-20x *Dynamic Data*

MCC Display Page(s):

131-132 (CALL TRACE MENU)
133-138 (HARDWARE CALL TRACE - 1 THROUGH 6)
139 (ISDN PACKET SWITCH CALL TRACE)
140 (HARDWARE CALL TRACE)
150 (TRACEABLE CALL STATUS)
151 (CONFERENCE CIRCUIT TRACE)

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OP:TRCU

Software Release: 5E15 and later
Command Group: ONTC
Application: 5
Type: Input

1. PURPOSE

Requests a print-out of the Transmission Rate Converter Unit (TRCU) information associated with the specified TRCU path (TRCP) or the TRCU3 control time slot (TCTS) number.

2. FORMAT

```
OP:TRCU,{TRCP=a-b|TCTS=c}
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = TRCU path value. Refer to the APP:RANGES in the Appendixes section of the Input Messages manual.

`c` = TCTS value. Refer to the APP:RANGES in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with the current system or equipment status. Valid values are:
- `DB READ ERR` = The DB couldn't be read.
- `UNEQUIPPED` = The SM isn't equipped with the TRCU path.
- `NO MATCH` = The TCTS wasn't found.
- `UNEQ SM` = The SM isn't equipped.
- `NOT ORM` = The SM isn't an ORM/EXM2000.
- `INVLD PATH` = TRCU path is out of range.

`PF` = Print-out follows. An OP:TRCU output message follows in response to the request.
`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`OP:TRCU`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1201,XX (ORM DLI/NLI/TMSLNK SET XX)

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OP:TRFC15

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests the 15-minute traffic report at a time other than the regularly scheduled time.

2. FORMAT

```
OP:TRFC15;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- DATA NOT AVAILABLE AT THIS TIME` = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

`PF` = Printout follows. The request has been received and is being processed. If the report is available, it will follow. Otherwise, an error message will follow.

5. REFERENCES

Output Message(s):

```
OP:TRFC15-PT01
OP:TRFC15-PT02A
OP:TRFC15-PT02B
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:TRFC30

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests the immediate output of the specified section of the 30-minute traffic report.

2. FORMAT

```
OP:TRFC30,a;
```

3. EXPLANATION OF MESSAGE

`a` = Name of the section to be printed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for section names. For those sections that indicate identifiers in addition to section names, omitting the identifier on the "OP:TRFC30,a" input message line will cause whatever has been previously allowed to print. The identifier on the input message line will cause the specified record(s) to print (if available).

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `CONFIGURATION NOT SUPPORTED.` = The section requested represents a configuration not present in this office.
- `DATA NOT AVAILABLE AT THIS TIME` = Report is being generated and therefore manual requests are locked out, or report has not generated since an initialization.
- `DATA NOT COLLECTED` = Data for this section was not collected.
- `NOT ALLOWED FOR ROP OUTPUT` = This section is not allowed for receive-only printer (ROP). The request was to print whatever records were previously allowed - and there were none.

`NO` = The requested action failed. May also include:

- `FEATURE NOT AVAILABLE` = The feature required to process the request is not present in the switch.

`PF` = Printout follows. Followed by the OP:TRFC30-ND output message.

5. REFERENCES

Input Message(s):

```
ALW:TRFC30
INH:TRFC30
```

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```
OP:MEASTAT
OP:ST-TRFC30
```

Input Appendix(es):

```
APP:TRFC-SECTION
```

Output Message(s):

```
ALW:ST-TRFC30
ALW:TRFC30
INH:TRFC30
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30
OP:TRFC30-ND
```

Output Appendix(es):

```
APP:TRFC-SECTION
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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OP:TRUNK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests report of trunks being held off-hook and out of service.

Format 1 reports all trunk groups. Format 2 reports all of the members in a trunk group. Format 3 reports an individual trunk group and member.

2. FORMAT

```
[1]    OP:TRUNK;

[2]    OP:TRUNK:TG=a;

[3]    OP:TRUNK:TKGMN=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Trunk group number.

`b` = Trunk member number.

4. SYSTEM RESPONSE

`NA` = No acknowledgement. Request has not been acknowledged. It is probable that the request has been lost.

`PF` = Printout follows. Request has been accepted. Followed by the OP:TRUNK output message identifying the results of the request.

5. REFERENCES

Input Message(s):

```
CLR:TRUNK
MON:TRUNK
```

Output Message(s):

```
OP:TRUNK
```

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OP:TSESS-DS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Display, on the TLWS SLIM page 162, the status of subscriber line and instrument measurement (SLIM) routine mode test session.

2. FORMAT

```
OP:TSESS:DISPLAY,SESS=a;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the test session (1 - 40).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- TEST SESSION a NOT DEFINED`

`NA` = Not acknowledgement.

`PF` = Printout follows.

5. REFERENCES

MCC Display Page(s):

162 (TESTSESSION STATUS)

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OP:TSESS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request to output the status of subscriber line and instrument measurement (SLIM) routine mode test session in ROP.

2. FORMAT

```
OP:TSESS,SESS=a;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the test session (1 - 40).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- TEST SESSION a IS NOT DEFINED`

`PF` = Printout follows.

5. REFERENCES

None.

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OP:TTY

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a teletypewriter (TTY).

2. FORMAT

```
OP:TTY=a:INFO;
```

3. EXPLANATION OF MESSAGE

`a` = Member number.

4. SYSTEM RESPONSE

`PF` Printout follows. Followed by an OP:TTY output message.

5. REFERENCES

Output Message(s):

`OP:TTY`

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OP:TTYC

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information about a teletypewriter controller (TTYC).

2. FORMAT

```
OP:TTYC=a:INFO;
```

3. EXPLANATION OF MESSAGE

a	= Member number.

4. SYSTEM RESPONSE

PF	Printout follows. Followed by an OP:TTYC output message.

5. REFERENCES

Output Message(s):

OP:TTYC

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58. OP:U

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OP:ULARP-COM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests the status of run input messages.

2. FORMAT

```
OP:ULARP,COMMAND={ALL|a};
```

3. EXPLANATION OF MESSAGE

`a` = Name of equipment configuration database (ECD) record for run input message.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ULARP-COM output message.

5. REFERENCES

Input Message(s):

```
INIT:ULARP
OP:ULARP-EXEC
OP:ULARP-PROC
```

Output Message(s):

```
OP:ULARP-COM
REPT:ULARP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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OP:ULARP-EXEC

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a listing of the execution sequence of child processes and run input message during a bootstrap or user initialization procedure.

2. FORMAT

```
OP:ULARP,EXECSEQ={BOOT|CFTINIT};
```

3. EXPLANATION OF MESSAGE

`BOOT` = List processes and input message for a bootstrap procedure.

`CFTINIT` = List processes and input message for an initialization procedure.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ULARP-EXEC output message.

5. REFERENCES

Input Message(s):

```
INIT:ULARP
OP:ULARP-COM
OP:ULARP-PROC
```

Output Message(s):

```
OP:ULARP-EXEC
REPT:ULARP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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OP:ULARP-PROC

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests the status of *UNIX*® level automatic restart process (ULARP) child processes.

2. FORMAT

```
OP:ULARP,PROCESS={ALL|a};
```

3. EXPLANATION OF MESSAGE

`a` = Name of equipment configuration data base (ECD) record for ULARP child process.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:ULARP-PROC output message.

5. REFERENCES

Input Message(s):

```
INIT:ULARP
OP:ULARP-COM
OP:ULARP-EXEC
```

Output Message(s):

```
OP:ULARP-PROC
REPT:ULARP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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OP:UMBILMAP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request output containing the busy/idle status of host umbilical channels

2. FORMAT

```
OP:UMBILMAP,UMBIL=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Host switching module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Remote switching module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Host umbilical (UMBIL) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `DATA BASE READ FAILURE` = Failure in reading database for this facility.
- `FACILITY IS NOT AN UMBILICAL FACILITY.` = Facility is not an HSM to/from an RSM umbilical facility.
- `UNIT DOES NOT EXIST` = Bad unit number.

`PF` = Printout follows. The request has been accepted and is being processed. The OP:UMBILMAP output message will follow.

`RL` = Retry later.

5. REFERENCES

Output Message(s):

`OP:UMBILMAP`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance Manual*

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235-105-250 *System Recovery Manual*

MCC Display Page(s):

1740,xxx,yyy (HOST UMBILICALS (1 - 10))
1741,xxx,yyy (HOST UMBILICALS (11 - 20))

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OP:UMEM

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Causes the contents of the administrative module (AM) generic access package (GRASP) trace to be dumped to a file. The trace goes into the DUMPED state with the successful completion of the input message. The output is formatted depending upon the type of trace specified with the INIT:UMEM input message.

2. FORMAT

```
OP:UMEM[:UCL][:MCH];
```

3. EXPLANATION OF MESSAGE

MCH	= Dump trace memory of inactive control unit (CU) using the maintenance channel (MCH). This option should only be used in extreme cases in which the sanity of the off-line CU is in question and it is not desirable to perform a switch to that CU.
UCL	= Unconditionally dump trace memory.

4. SYSTEM RESPONSE

NG	= No good. No trace is defined.
PF	= Printout follows. Followed by the OP:UMEM output message.
RL	= Retry later or wait for previous OP:UMEM to complete. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
DUMP:F-ALL
DUMP:F-PARTL
INIT:UMEM
OP:UTIL
```

Output Message(s):

```
OP:UMEM
OP:UTIL
```

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OP:UNAV

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all currently unavailable administrative module (AM) hardware units. This format provides a list of all unavailable units of a particular type.

2. FORMAT

```
OP:UNAV[,a{[=b][,c=d]}];
```

3. EXPLANATION OF MESSAGE

a	= Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.
b	= Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.
c	= Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.
d	= Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the OP:UNAV output message.
RL	= Retry later.
?D	= Data field error.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
```

Output Message(s):

```
OP:CFGSTAT
OP:UNAV
```

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Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

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OP:UNEQIP

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all currently unequipped administrative module (AM) hardware units. This format provides a list of all unequipped units of a particular type.

2. FORMAT

```
OP:UNEQIP[,{a[=b][,c=d]}];
```

3. EXPLANATION OF MESSAGE

`a` = Unit name. Administrative module (AM) unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Subunit name, if a=CU. Administrative module (AM) control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:UNEQIP output message.

`RL` = Retry later.

`?D` = Data field error.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
```

Output Message(s):

```
OP:CFGSTAT
OP:UNEQIP
```

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Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

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OP:UPART

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

To request status of the User Part specified by the input OPC(originating point code) /DPC (destination point code) pair.

2. FORMAT

```
OP:UPART,OPC=a,DPC=b[,SIGTYPE=c];
```

3. EXPLANATION OF MESSAGE

`a` = Originating point code (OPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

`b` = Destination point code (DPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

`c` = Signaling Type. Valid Value(s) are:

- BICC

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP UPART output message

5. REFERENCES

Output Message(s):

OP:UPART

Input Appendix(es):

APP:POINT-CODE

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OP:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the communications module processor (CMP).

This message may be used together with any of the other CMP generic utilities input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
OP:UT:CMP=a,{MATE|PRIM},{UTIL|UTILFLAG=b};
```

3. EXPLANATION OF MESSAGE

`MATE` = Execute this input message on the standby CMP.

`PRIM` = Execute this input message on the active CMP.

`UTIL` = Report the status (active or inhibited) of all WHEN breakpoint clauses in the specified CMP.

`a` = CMP number.

`b` = The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
```

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```
DUMP:UT-CMP
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
WHEN:UT-CMP
```

Output Message(s):

```
OP:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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OP:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN clauses in the specified packet interface unit (PI).

Note: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
OP:UT:MCTSI=a-b,PI,{UTIL|UTILFLAG=c}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Report the status (active or inhibited) of all WHEN clauses in the specified PI.

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

`c` = The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
```

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```
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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OP:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH).

Note: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utilities input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
OP:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=e};
```

3. EXPLANATION OF MESSAGE

`UTIL` = Report the status (active or inhibited) of all WHEN breakpoint clauses in the specified PSUPH.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number (always 0).

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.

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4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
OP:UT-PSUPH
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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OP:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH).

Note: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

This message may be used together with any of the other PSUPH generic utilities input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
OP:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=e}{!|;}
```

3. EXPLANATION OF MESSAGE

`UTIL` = Report the status (active or inhibited) of all WHEN breakpoint clauses in the specified PSUPH.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.

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4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
WHEN:UT-PSUPH
```

Output Message(s):

```
OP:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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OP:UT-SM

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the switching module (SM).

This message may be used together with any of the other SM generic utilities input messages. Refer to the References section of this message. If this message is used together with other generic utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
OP:UT:SM=a[&&b],{UTIL|UTILFLAG=c};
```

3. EXPLANATION OF MESSAGE

`UTIL` = Report the status (active or inhibited) of all WHEN breakpoint clauses in the specified SM(s).

`a` = SM number or the lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

`c` = The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
END:UT-SM
```

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```
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
WHEN:UT-SM
```

Output Message(s):

```
OP:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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OP:UTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests lists of currently defined central processor (CP) or administrative module (AM) AM) generic access package (GRASP) breakpoints, their status and trace status.

2. FORMAT

```
OP:UTIL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`?A` = Message not allowed in a WHEN action list. May also include:
`- INVALID KEYWORD`

`PF` = Printout follows. Followed by the OP:UTIL output message.

`RL` = Retry later. The system is in an overload condition or completing the previous OP:UMEM or OP:UMEM:MCH message.

5. REFERENCES

Input Message(s):

```
INIT:UMEM
OP:ST-PROC
WHEN:PID
WHEN:UID
```

Output Message(s):

```
OP:UTIL
WHEN:PID
WHEN:UID
```

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59. OP:V

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OP:VERS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Outputs the current firmware version of the CM3 ONTC or CM3 MSGS requested at the Master Control Center (MCC) and the Switching Control Center (SCC). This message is applicable for CM3 hardware only.

2. FORMAT

```
OP:VERS,a=b;
```

3. EXPLANATION OF MESSAGE

`a` = Unit. Valid value(s):
- `MSGS` = CM3 message switch unit requested.
- `ONTC` = CM3 office network and timing complex unit requested.

`b` = Side value of the unit. Valid value(s):
- `0`
- `1`

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ACTION FIELD ERROR` = Input fields are not correct.
- `UNIT ENEQUIPPED` = Unit requested is not equipped.
- `UNIT OOS` = Unit requested is not in service.
- `VALID FOR CM3 ONLY` = Unit is not CM3 vintage.

`PF` = Printout follows. The request was accepted. Followed by the OP:VERS output message.

5. REFERENCES

Output Message(s):

`OP:VERS`

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OP:VERSION

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Requests the generic text version and software update level by file system partition. This information can be used to identify the generic text version and software update level of the partitions should they become detached from the equipment configuration database (ECD).

2. FORMAT

```
OP:VERSION[,ALL];
```

3. EXPLANATION OF MESSAGE

ALL	= List of all of the history of changes to the generic text version and software update level since the last generic retrofit. If ALL is not specified, only the latest (current) generic text version and software update level, by partition, is listed.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by one or more OP:VERSION output message(s).

5. REFERENCES

Input Message(s):

```
UPD:VERSION
```

Output Message(s):

```
OP:VERSION
UPD:VERSION
```

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60. OP:W

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OP:WCPE

Software Release: 5E15 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that maintenance information be collected for an *Air Extension*[SM] wireless phone. This input message collects the following information:

- Indication of whether the wireless phone is a wireless test set or a subscriber's wireless phone.
- Tenant group wireless phone is assigned to.
- Electronic serial number stored in the wireless network controller (WNC) for the wireless phone.
- Terminal ID stored in the WNC for the wireless phone.
- Port status of the wireless phone's associated W-card line.
- Registration state of the wireless phone.
- Registration area the wireless phone is registered in if applicable.
- Call state of the wireless phone.
- Alert ID assigned to the wireless phone by the WNC if applicable.
- Status of wireless phone's visual message waiting indicator (MWI) as maintained in the WNC.
- Hook status of wireless phone's associated wired phone.
- Service restriction assigned to the wireless phone if any.

2. FORMAT

```
OP:WCPE,{DN=a | LCKEN=b-c-d-e-f};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = 10 digit wireless directory number (DN).

`b` = Switching module (SM) in which the wireless phone's W-card line exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit version 2 (ISLU2) in which the wireless phone's W-card line

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exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group number of wireless phone's W-card line. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line board number of wireless phone's W-card line. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Line circuit number of wireless phone's W-card line. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`RL` = Retry Later. The request has been denied, probably due to system load.

`PF` = Printout follows. The request has been accepted and is followed by an OP WCPE output message.

5. REFERENCES

Output Message(s):

`OP:WCPE`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
230-701-100 *Air Extension^{SM} Reference Guide*
230-701-120 *Air Extension^{SM} User Guide*

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OP:WSDATA

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the immediate or automatic printing of test results from the specified trunk and line work station (TLWS) test position (TP).

2. FORMAT

```
OP:WSDATA,TP=a[,LOG][,USERDEF];
```

3. EXPLANATION OF MESSAGE

`LOG` = Echo output that normally only goes to the TLWS screen to the ROP. This parameter toggles the log option. If the log option is off, it is toggled on. If the log option is on, it is toggled off.

`USERDEF` = Requests a display of all the user defined defaults for the test position: CHAN, BLKSZ, FREQ, LEVEL, OPDGTS, TERM, TESTEQ, and T&M NUMBER.

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good.

5. REFERENCES

Input Message(s):

`SET:WSPOS`

Output Message(s):

`OP:WSDATA`

Output Appendix(es):

`APP:TLWS`

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Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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OP:WSSTAT

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Requests the testing status of one or all trunk and line work station (TLWS) test positions (TP).

The summary shows which TPs are available to be selected by the SET:WSPOS input message.

2. FORMAT

```
OP:WSSTAT[,TP=a][,ROP];
```

3. EXPLANATION OF MESSAGE

`ROP` = If entered, the results of this input message will go to the ROP and the terminal. Without this optional parameter, the results will only be displayed on the terminal.

`a` = TLWS TP number. If no TP is requested, then a summary line giving TLWS global parameters is provided. If the TP requested is zero (0), then all TPs are reported.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`PF` = Printout follows. Followed by the OP:WSSTAT output message.

5. REFERENCES

Input Message(s):

`SET:WSPOS`

Output Message(s):

`OP:WSSTAT`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*

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MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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61. ORD

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ORD:CPI

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that switching modules (SM) be reconfigured or forced by sending administrative module intervention (AMI) messages (CMD) to either a single SM, to a range of SMs, or broadcast to all SMs.

This message allows the selection of four distinct paths from the administrative module (AM) to the SM. Eight paths may be achieved by switching to the mate AM and repeating the ORD:CPI messages.

WARNING: This message should be used only when normal communication with the SM fails. Use variable 'd' options FRC,INH, RESET, and SW with caution

2. FORMAT

```
ORD:CPI=a[&&b][-c[-d]],CMD=e[-f][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Send the message down all four paths until the SM acknowledges or all paths are tried. This option cannot be entered if a range of 1 to 192 is specified.

`a` = SM number or lower limit for a range of SMs.

`b` = Upper limit for a range of SMs.
Note: For a simultaneous broadcast to all SMs, a range of 1 to 192 should be specified. Any other range will result in sending individual messages to specified SMs.

`c` = Office network and timing complex (ONTC) side 0 or 1 (defaults to active major ONTC).

`d` = Even (0) or odd (1) NCT link to the SMs (defaults to logical link 0).

`e` = Type of CPI input message to be sent to the SMs. Valid value(s):

- `ALW` = Allow the sanity timer.
- `CLR` = Clear the force on the specified SMs.
- `FRC` = Force the specified module controller/time slot interchange units (MCTSI) to the active state. This will cause a single process purge if a processor switch is involved.
- `GRSW` = Generic retrofit switch. Force the specified MCTSIs to the active state and cause a full initialization. This input message should only be used as directed during a retrofit.
- `INH` = Inhibit the sanity timer.
- `RESET` = Reset the specified SM. This will result in a full initialization.

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`SW` = Switch the MCTSI to the specified side, then force that side to the active state.

Note: When using the SW option for CMD, a failure will occur if SM diagnostics are running. Always check the SM status and verify that no diagnostics are running on the SM.

`f` = Side 0 or 1 of the MCTSI (required for FRC, GRSW, and SW input messages).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:CPI output message.

5. REFERENCES

Output Message(s):

`ORD:CPI`

MCC Display Page(s):

1190 (MCTSI/DLI/RLI)
1800 (INHIBIT AND RECOVERY CONTROL)

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ORD:DLOOP-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Establishes or releases a connection between a network digital loop and a specific digital trunk.

2. FORMAT

```
ORD:DLOOP,{OPR[=a]|RLS},b;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`OPR` = Establishes (operates) a connection.

`RLS` = Release a connection.

`a` = The time limit or duration, in seconds, to maintain the connection. The time limit is 3600 seconds in 1 second increments. The default is 30 seconds. (This is only valid when the OPR keyword is specified.)

`b` = Test parameter. Valid value(s):
`DEN=c-d-e-f` = Test a single digital trunk.
`NEN=c-g-h-i-j-k-l-m` = Test a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.

`g` = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = SONET terminal equipment (STE) facility number. Refer to the APP:RANGES appendix in

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the Appendixes section of the Input Messages manual.

`j` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:DLOOP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ORD:DLOOP`

Input Appendix(es):

`APP:RANGES`

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ORD:DLOOP-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Establishes or releases a connection between a network digital loop and a specific digital trunk.

2. FORMAT

```
ORD:DLOOP,{OPR[=a]|RLS},b;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`OPR` = Establishes (operates) a connection.

`RLS` = Release a connection.

`a` = The time limit or duration, in seconds, to maintain the connection. The time limit is 3600 seconds in 1 second increments. The default is 30 seconds. (This is only valid when the OPR keyword is specified.)

`b` = Test parameter. Valid value(s):

`DEN=c-d-e-f` = Test a single digital trunk.

`NEN=c-g-h-i-j-k-l-m` = Test a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

`OIUEN=c-n-o-i-j-k-l-m` = Test a single digital trunk on an optical interface unit (OIU).

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.

`g` = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`h` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = SONET terminal equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:DLOOP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ORD:DLOOP`

Input Appendix(es):

`APP:RANGES`

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ORD:DLOOP-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Establishes or releases a connection between a network digital loop and a specific digital trunk.

This input message is also used to establish or release the loopback termination in SDL port that was terminated on DLTU/DNUS/OIU. Before establishing the connection, the signaling link should be in the deactivated (DACT) state and the SDL port must be IS, which means:

- The port is not being used by call processing.
- The port is available to be used by testing.

NOTE: The connection would be interrupted by unconditional maintenance operation, such as RMV, RST.

2. FORMAT

```
ORD:DLOOP,{OPR[=a]|RLS},b;
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`OPR` = Establishes (operates) a connection.

`RLS` = Release a connection.

`a` = The time limit or duration, in seconds, to maintain the connection. The time limit is 3600 seconds in 1 second increments. The default is 30 seconds. (This is only valid when the OPR keyword is specified.)

`b` = Test parameter. Valid value(s):
`DEN=c-d-e-f` = Test a single digital trunk.
`NEN=c-g-h-i-j-k-l-m` = Test a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).
`OIUEN=c-n-o-i-j-k-l-m` = Test a single digital trunk on an optical interface unit (OIU).

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the

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Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.

`g` = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = SONET terminal equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:DLOOP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ORD:DLOOP`

Input Appendix(es):

`APP:RANGES`

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ORD:SCAN-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Reads the state of a particular digital trunk to determine if the far end (originator) is on/off-hook.

Format 1 digital equipment number (DEN) reads the state of a single digital trunk.

Format 2 networking equipment number (NEN) reads the state of a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

2. FORMAT

```
[1]    ORD:SCAN,DEN=a-b-c-d;

[2]    ORD:SCAN,NEN=a-e-f-g-h-i-j-k;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

`e` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = SONET Terminal Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Virtual tributary Group (VTG) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`j` = Virtual tributary Member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:SCAN output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ORD:SCAN`

Input Appendix(es):

`APP:RANGES`

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ORD:SCAN-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Reads the state of a particular digital trunk to determine if the far end (originator) is on/off-hook.

2. FORMAT

```
ORD:SCAN,a;
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = State parameter. Valid value(s):
`DEN=b-c-d-e` = Read the state of a single digital trunk.
`NEN=b-f-g-h-i-j-k-l` = Read the state of a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).
`OIUEN=b-m-n-h-i-j-k-l` = Read the state of a single digital trunk on an optical interface unit (OIU).

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.

`f` = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = SONET terminal equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`k` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:SCAN output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ORD:SCAN`

Input Appendix(es):

`APP:RANGES`

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ORD:SCSD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that one of four distribution operations be performed on a scanner and signal distributor (SCSD) distribute point.

Distribute points can be identified by physical location as shown in Format 1 or by logical address as shown in Format 2.

2. FORMAT

```
[1]    ORD:SCSD:UNIT=a,PT=b[-b-b-b-b-b-b-b],OPR=f;

[2]    ORD:SCSD:GRPN="c",DUPID=d,PT=e[-e-e-e-e-e],OPR=f;
```

3. EXPLANATION OF MESSAGE

`a` = Member number of the SCSD unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Physical distribute point number on an SCSD (0-31).

`c` = Name of the logical SCSD group. Valid value(s):

```
ACPALARM
FANACU0
FANACU1
PRSWCU0
PRSWCU1
PRSWDFC0
PRSWDFC1
PRSWIOP0
PRSWIOP1
PRSWMHD0
PRSWMHD1
```

`d` = Duplex point ID (0 or 1).

`e` = Number of a point within a logical group (0-5).

`f` = Operation to be done on the distribute point. Valid value(s):

`OPERATE`	= Set.
`RELEASE`	= Clear.
`REPEAT`	= Flash continuously.
`STEP`	= Flash for eight seconds, which terminates in the cleared state.

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4. SYSTEM RESPONSE

`NG` = No good. SCSD administrator process is not active; no communication with SCSD points is possible.

`PF` = Printout follows. Followed by the ORD:SCSD output message.

`RL` = Retry later.

5. REFERENCES

Output Message(s):

```
ORD:SCSD
REPT:SCSD
```

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ORD:TONE-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Establishes or releases a connection between a network 1004 Hz tone and a specific digital trunk.

Format 1 digital equipment number (DEN) tests a single digital trunk.

Format 2 networking equipment number (NEN) tests a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

2. FORMAT

```
[1]    ORD:TONE,{OPR[=a]|RLS},DEN=b-c-d-e;

[2]    ORD:TONE,{OPR[=a]|RLS},NEN=b-f-g-h-i-j-k-l;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`OPR` = Establishes a connection.

`RLS` = Release a connection.

`a` = The time limit or duration (DUR) in seconds, of the connection (1 to 1800). The default is 30 seconds. (This is only valid when the OPR keyword is specified.)

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

`f` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`h` = Signaling Terminal Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Virtual tributary Group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Virtual tributary Group (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:TONE output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ORD:TONE`

Input Appendix(es):

`APP:RANGES`

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ORD:TONE-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Establishes or releases a connection between a network 1004 Hz tone and a specific digital trunk.

2. FORMAT

```
ORD:TONE,{OPR[=a]|RLS},b;
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`OPR` = Establishes a connection.

`RLS` = Release a connection.

`a` = The time limit or duration (DUR) in seconds, of the connection (1 to 1800). The default is 30 seconds. (This is only valid when the OPR keyword is specified.)

`b` = Test parameter. Valid value(s):
`DEN=c-d-e-f` = Test a single digital trunk.
`NEN=c-g-h-i-j-k-l-m` = Test a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).
`OIUEN=c-n-o-i-j-k-l-m` = Test a single digital trunk on an optical interface unit (OIU).

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.

`g` = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`i` = Signaling terminal equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Virtual tributary group (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:TONE output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ORD:TONE`

Input Appendix(es):

`APP:RANGES`

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ORD:TRK-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

This message will report the out-going supervision state of a trunk (on/off-hook) or set the trunk to on or off-hook.

Format 1 digital equipment number (DEN) reads the state of a single digital trunk.

Format 2 networking equipment number (NEN) reads the state of a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

2. FORMAT

```
[1]    ORD:TRK,{OFFHOOK|ONHOOK|READ},DEN=a-b-c-d;

[2]    ORD:TRK,{OFFHOOK|ONHOOK|READ},NEN=a-e-f-g-h-i-j-k;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`OFFHOOK` = Set the trunk off-hook.

`ONHOOK` = Set the trunk on-hook.

`READ` = Read the out-going supervision of the trunk.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

`e` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`g` = SONET Terminal Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Virtual tributary Group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Virtual tributary Member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:TRK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ORD:TRK`

Input Appendix(es):

`APP:RANGES`

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ORD:TRK-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

This message will report the out-going supervision state of a trunk (on/off-hook) or set the trunk to on or off-hook.

2. FORMAT

```
ORD:TRK,a,b;
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Trunk setting. Valid value(s):
- `OFFHOOK` = Set the trunk off-hook.
- `ONHOOK` = Set the trunk on-hook.
- `READ` = Read the out-going supervision of the trunk.

`b` = Read parameter. Valid value(s):
- `DEN=c-d-e-f` = Read the state of a single digital trunk.
- `NEN=c-g-h-i-j-k-l-m` = Reads the state of a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).
- `OIUEN=c-n-o-i-j-k-l-m` = Reads the state of a single digital trunk on an optical interface unit (OIU).

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.

`g` = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`i` = SONET terminal equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the ORD:TRK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`ORD:TRK`

Input Appendix(es):

`APP:RANGES`

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62. QRY

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QRY:CA2IPMAP

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a packet switching unit (PSU) community address (CA) to internet protocol (IP) mapping (CA2IPMAP) query of all or specific IP neighbors in the IP address manager (AM) (IPAM) neighbor list for a given cluster or office.

The report will contain far clusters and offices as well as an indication of whether the query to the far end was successful.

2. FORMAT

```
QRY:CA2IPMAP[,CLUSTER=a][,OFFICE=b];
```

3. EXPLANATION OF MESSAGE

`a` = Cluster name.

`b` = Office name.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more QRY:CA2IPMAP output messages.

`NG` = No good. May also include:
- `CLUSTER NOT PROVISIONED` = The request has been denied. The message is valid but the cluster is not provisioned.
- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- `OFFICE NOT PROVISIONED` = The request has been denied. The message is valid but the office is not provisioned.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The request has been denied. The message is valid but the CMP is not available.

5. REFERENCES

Output Message(s):

```
OP:CA2IPMAP
QRY:CA2IPMAP
```

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Input Appendix(es):

```
APP:RANGES
```

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QRY:NBRLIST

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a neighbor list (NBRLIST) query of all or specific internet protocol (IP) neighbors in the IP address manager (AM) (IPAM) neighbor list for a given cluster or office.

The report will contain far clusters and offices as well as an indication of whether the query to the far end was successful.

2. FORMAT

```
QRY:NBRLIST[,CLUSTER=a][,OFFICE=b];
```

3. EXPLANATION OF MESSAGE

`a` = Cluster name.

`b` = Office name.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more QRY:NBRLIST output messages.

`NG` = No good. May also include:
- `CLUSTER NOT PROVISIONED` = The request has been denied. The message is valid but the cluster is not provisioned.
- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- `OFFICE NOT PROVISIONED` = The request has been denied. The message is valid but the office is not provisioned.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The request has been denied. The message is valid but the CMP is not available.

5. REFERENCES

Output Message(s):

```
OP:NBRLIST
QRY:NBRLIST
```

Input Appendix(es):

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```
APP:RANGES
```

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63. RCV

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RCV:APPTEXT

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests a recent change and verify (RC/V) session using the text input option.

The text input option is not menu-driven and does not require a terminal that has cursor control.

The input message consists of the message itself or the message plus one or more message line parameters to be passed to the APPTEXT process. If the parameters are not entered on the message line, they may be entered after the APPTEXT process begins but prior to the first "FORM=" statement. Refer to the Recent Change Procedures 235-118-252 manual for information on performing recent changes on the message line.

A session is composed of one or more text recent change operations. Operations are tasks specified within a session to perform a unit of work (for example: change the data for a particular telephone line).

2. FORMAT

```
[1]    RCV:APPTEXT;

[2]    RCV:APPTEXT:DATA[,VERBOSE][,VFYIMMED|,VFYEND]
       [,VFYNMVAL|,VFYSCIMG][,DEVICE={STDOUT|ROP|ROP0|FILE|TTYx}],
       [,VERSION=X],
       FORM=...,DATA,FORM=...,END;
```

3. EXPLANATION OF MESSAGE

`DATA` = If the user is performing more than one recent change operation on a single line of input to the text interface, ":DATA" must be used after "APPTEXT." In addition, ",DATA" must be used before each subsequent ",FORM=" statement in the single-line input.

`DEVICE` = Redirect verify output to a device other than the user's terminal. Valid value(s):

- `FILE` = Send verify output to a file in "/rclog". The file will be prefixed with "RCTX", and the user will be given the name of the file at the beginning and end of the APPTEXT session.
- `ROP/ROP0` = Send verify output to the ROP.
- `STDOUT` = Send verify output to user's terminal. This is the default.
- `TTYx` = Send verify output to any valid tty (such as ttya and ttyv) that exists in "/dev." The user must use the tty name, not tty number.

`END` = Terminating keyword.

`FORM` = Recent Change view upon which an operation is to be performed.

`VERBOSE` = Turn on one-line logging message of recent changes (RCs) on the receive-only printer (ROP) for the current session only. The default is no logging.

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The one-line logging message has the following format:

RCV SUCCESS|FAILURE RCV-Form-Name RC-Operation Key(s) TERM-ID=terminal-name

VERSION = Translate APPTEXT input messages from software release X to the software release currently on the switch. This allows the user to input recent change messages that are not compatible with the current software release. The value of X is an integer that specifies a software release supported for translation of input messages. If the value of X is equal to the software release on the switch, then no translation of input messages will be performed.

VFYEND = Print verify output at the end of the APPTEXT session. This is the default. With this option, the number of verifies per APPTEXT session is limited by the amount of file space in the "/rclog" partition.

VFYIMMED = Print verify output immediately after each verify instead of at the end of the session. Verify output must be directed to a device other than the user's terminal.

VFYNMVAL = Print verify output in name-value pair format. Must be redirected to a file.

VFYSCIMG = Print verify output in screen-image format. This is the default.

Valid Option Combinations

Format	When	Allowed to ROP	Allowed to STDOUT	Allowed to TTYx	Allowed to FILE
VFYNMVAL	VFYIMMED	NO	NO	NO	NO
VFYNMVAL	VFYEND	NO	NO	NO	YES
VFYSCIMG	VFYIMMED	NO	NO	YES*	NO
VFYSCIMG	VRYEND	YES	YES	YES	YES

* Immediate verify output cannot be directed to the user's terminal or the SCC terminal.

4. SYSTEM RESPONSE

OK = Good. The request has been received. This will be the response when recent changes are not performed on the message line. The user will be put into the APPTEXT session.

PF = Printout follows. A printout will follow on the terminal and on the ROP indicating the end of the APPTEXT session. This will be the response when recent changes are performed on the message line. Sessions initiated from the Master Control Center (MCC) and Switching Control Center (SCC) will get a detailed log printout of session input text. Any requested verify output will be printed to the user's terminal unless the user has redirected the verify output.

5. REFERENCES

Input Message(s):

```
OP:RCACCESS
RCV:M-APPRC
SET:RCACCESS
```

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Output Message(s):

```
RCV:FAILURE
RCV:SUCCESS
REPT:APPTEXT
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-600-10x *Translations Data*
235-600-20x *Dynamic Data*
235-900-30x *Recent Change - Operations Systems Interface Specification*

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RCV:DMTECD-RC

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes the text recent change and verify (RC/V) activity; this format is used to insert, update, or delete records in the equipment configuration database (ECD) using serial text input.

Text RC/V is similar to forms RC/V (trbegin, trend, dbdump, etc.) with the following exceptions: Interactive feedback is on a line basis, not on data fields, and so forth. Errors will be flagged after a message line. All key fields must be entered (no defaults) before any data fields. Assigned default values are not viewable without a secondary operation (refer RCV:DMTECD-VFY). Review/change-insert mode is not supported. A text RC/V session is a single logical message that can be broken into one or more physical lines between keyword units. When the message is broken into multiple lines, a continuation character ("!") must be entered at the end of each line. At the end of continued lines, an acknowledgment is printed, followed by a prompt for more input. Zero or more form operations can be performed per text RC/V session. The session continues until a line is entered without the continuation character. Note, the shell cannot parse an execute character on a line by itself. A text RC/V session is divided into two processing segments: process parameters and process forms. The parameter processing must be first and must be successfully completed before forms processing is allowed. No parameter processing can be done once forms processing has begun. The valid text parameters are shown in this section. The parameter section follows the invocation and ends with the next END or FORM keyword. Note that these keywords cannot be entered on the first line of parameter input. The parameters are verified and errors are generated as needed. If errors are associated with a noncontinued line, the errors are output as a spooler message. Text RC/V recognizes:

`ABORTFORM` = Aborts a particular form operation.

`END` = Checks termination status. (Not recognized within a form operation.)

`FORM` = Begins a form operation.

`MSG` = Reports an error message when an error occurs during form processing.

`SET` = This keyword must be used if the field name in the keyword-data-pair (parameter 'f') is part of a structure or list, or contains nonalphanumeric characters.

2. FORMAT

```
RCV:DMTECD:RC,{DB=|DBF=}"a"[,MASKS="b"][,c][,d];
[FORM="e"&g;f,g][,END];
```

3. EXPLANATION OF MESSAGE

`DB` = The ECD to be processed is not in loadfile format.

`DBF` = The ECD to be processed is in loadfile format.

`a` = Name of the data base to be processed. It may be the pathname of a data base file or:

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broot = Backup (/broot) full-configuration data base (valid only if backup file system is mounted).
brootdmly = Backup (/broot) minimum-configuration data base (valid only if backup file system is mounted).
incore = In-core copy.
root = Root copy of full-configuration data base.
rootdmly = Root copy of minimum-configuration data base.

b = Pathname of the directory containing the mask description files. Default = /lla/ecdmasks.

c = JOURNAL/NJOURNAL option. Valid value(s):
JOURNAL = Print all forms from insert, delete, and updates requests to /etc/rcvecd.journal. (Default)
NJOURNAL = Do not print forms from insert, delete, or updates requests to etc/rcvecd.journal.

d = SYSGEN/NSYSGEN option. Valid value(s):
SYSGEN = Enable the system generation mode of operation. This should only be used when executing a dbload or data base evolution because the changes are written into the data base as applied rather than at the end of the transaction block.
NSYSGEN = Disable the system generation mode of operation. Changes are not applied to the data base until the end of the transaction block. (Default)

e = Formtype name of form to be recent changed. Valid names are listed in the Recent Change and Verify User's Guide.

f = Keyword_data_pair-This argument is in the general form of a keyword and an argument, where keyword is usually a form field name, and argument is the data for that field. Valid field names and argument values are listed in the Recent Change and Verify User's Guide. The 'f' argument must be in one of the following formats:
keyword, ...
keyword=data, ...
SET=keyword, ...
SET=keyword & data, ...
ABORTFORM, ...

g = This argument is shown twice in the format. The first instance is used to indicate the desired operation to be performed on the associated form-type. The second instance is used to indicate the actual execution of the desired operation once all data has been entered for the form. The legal operation types are:
CHG = The form is to be updated in the data base.
NEW = The form is to be inserted into the data base.
OUT = The form is to be deleted from the data base.
XEQ = The form is to be executed. This is the default operation type, but is only valid on executable formtypes.

Note: Fatal errors are written to /etc/dmtecd.err.

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4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:DMTECD-VFY output message.

5. REFERENCES

Input Message(s):

```
RCV:DMTECD-VFY
RCV:DMTSG-RC
RCV:DMTSG-VFY
RCV:M-RCVECD
RCV:M-RCVSG
```

Output Message(s):

```
RCV:DMTECD-VFY
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-600-30x *ECD/SG Data Base*

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RCV:DMTECD-VFY

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes the text recent change and verify (RC/V) activity; this format is used to review equipment configuration database (ECD) forms using serial text input.

2. FORMAT

```
RCV:DMTECD:VFY,{DB|DBF="a"}[,MASKS="b"]!
,FORM="c",d,VFY,END;
```

3. EXPLANATION OF MESSAGE

`DB` = The ECD to be processed is not in loadfile format.

`DBF` = The ECD to be processed is in loadfile format.

`a` = Name of the database to be processed. It may be the pathname of a database file or:

- `broot` = Backup (/broot) full-configuration database (valid only if backup file system is mounted).
- `brootdmly` = Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
- `incore` = In-core copy.
- `root` = Root copy of full-configuration database.
- `rootdmly` = Root copy of minimum-configuration database.

`b` = Pathname of the directory containing the mask description files. Default = /lla/ecdmasks.

`c` = Formtype name of form to be reviewed. Valid names are listed in the Recent Change and Verify User's Guide.

`d` = Keyword_data_pair-This argument is in the general form of a keyword and an argument, where keyword is usually a form field name, and argument is the data for that field. Valid field names and argument values are listed in the Recent Change and Verify User's Guide. The 'd' argument must be in one of the following formats:
keyword, ...
keyword=data, ...
SET=keyword, ...
SET=keyword & data, ...
ABORTFORM, ...

4. SYSTEM RESPONSE

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`PF` = Printout follows. Followed by RCV:DMTECD-VFY output message.

5. REFERENCES

Input Message(s):

```
RCV:DMTECD-RC
RCV:DMTSG-RC
RCV:DMTSG-VFY
RCV:M-RCVECD
RCV:M-RCVSG
```

Output Message(s):

```
RCV:DMTECD-VFY
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x *ECD/SG Data Base*

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RCV:DMTSG-RC

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes the text recent change and verify (RC/V) activity. This format is used to insert, update, or delete records in the system generation (SG) database using serial text input.

Text RC/V is similar to forms RC/V (trbegin, trend, dbdump, etc.) with the following exceptions: Interactive feedback is on a line basis, not on data fields, etc. Errors will be flagged after a message line. All key fields must be entered (no defaults) before any data fields. Assigned default values are not viewable without a secondary operation. Refer to the RCV:DMTECD-VFY output message. Review/change-insert mode is not supported. A text RC/V session is a single logical message that can be broken into one or more physical lines between keyword units. When the message is broken into multiple lines, a continuation character ("!") must be entered at the end of each line. At the end of continued lines, an acknowledgment is printed, followed by a prompt for more input. Zero or more form operations can be performed per text RC/V session. The session continues until a line is entered without the continuation character. Note, the shell cannot parse an execute character on a line by itself. A text RC/V session is divided into two processing segments: process parameters and process forms. The parameter processing must be first and must be successfully completed before forms processing is allowed. No parameter processing can be done once forms processing has begun. The valid text parameters are shown in this section. The parameter section follows the invocation and ends with the next END or FORM keyword. Note that these keywords cannot be entered on the first line of parameter input. The parameters are verified and errors are generated as needed. If errors are associated with a noncontinued line, the errors are output as a spooler message. Text RC/V recognizes:

`ABORTFORM` = Aborts a particular form operation.

`END` = Checks termination status. (Not recognized within a form operation.)

`FORM` = Begins a form operation.

`MSG` = Reports an error message when an error occurs during form processing.

`SET` = This keyword must be used if the field name in the keyword-data-pair (parameter 'f') is part of a structure or list, or contains nonalphanumeric characters.

2. FORMAT

```
RCV:DMTSG:RC,DB="a"[,MASKS="b"][,c][,d];
[FORM="e"&g;f,g][,END];
```

3. EXPLANATION OF MESSAGE

`a` = Name of the system generation (SG) data base to be processed. Valid value(s):

- `broot` = Backup (/broot) full-configuration data base (valid only if backup file system is mounted).
- `brootdmly` = Backup (/broot) minimum-configuration data base (valid only if backup file

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system is mounted).
`incore` = In-core copy.
`root` = Root copy of full-configuration data base.
`rootdmly` = Root copy of minimum-configuration data base.
= The pathname of a data base file.

`b` = Pathname of the directory containing the mask description files. Default = /lla/sgmasks.

`c` = JOURNAL/NJOURNAL option. Valid value(s):
`JOURNAL` = Print all forms from insert, delete, and updates requests to /etc/rcvsg.journal. (Default)
`NJOURNAL` = Do not print forms from insert, delete, or updates requests to /etc/rcvsg.journal.

`d` = SYSEN/NSYSGEN option. Valid value(s):
`NSYSGEN` = Disable the system generation mode operation. Changes are not applied to the data base until the end of the transaction check. (Default)
`SYSGEN` = Enable the system generation mode of operation. This should only be used when executing a dbload or data base evolution because the changes are written into the data base as applied rather than at the end of the transaction block.

`e` = Formtype name of form to be recent changed. Valid names are listed in the Recent Change and Verify User's Guide.

`f` = Keyword_data_pair-This argument is in the general form of a keyword and an argument, where keyword is usually a form field name, and argument is the data for that field. Valid field names and argument values are listed in the Recent Change and Verify User's Guide. The 'f' argument must be in one of the following formats:
keyword, ...
keyword=data, ...
SET=keyword, ...
SET=keyword & data, ...
ABORTFORM, ...

`g` = This argument is shown twice in the format. The first instance is used to indicate the desired operation to be performed on the associated form-type. The second instance is used to indicate the actual execution of the desired operation once all data has been entered for the form. Valid value(s):
`CHG` = The form is to be updated in the data base.
`NEW` = The form is to be inserted into the data base.
`OUT` = The form is to be deleted from the data base.
`XEQ` = The form is to be executed. This is the default operation type, but is only valid on executable form-types.

Note: Fatal errors are written to /etc/dmtsg.err.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:DMTSG-VGY output message.

5. REFERENCES

Input Message(s):

```
RCV:DMTECD-RC
RCV:DMTECD-VFY
RCV:DMTSG-VFY
RCV:M-RCVECD
RCV:M-RCVSG
```

Output Message(s):

```
RCV:DMTSG-RC
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x *ECD/SG Data Base*

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RCV:DMTSG-VFY

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes the text recent change and verify (RC/V) activity. This format is used to review system generation (SG) database forms using serial text input.

2. FORMAT

```
RCV:DMTSG:VFY,DB="a"[,MASKS="b"]!
FORM="c",d,VFY,END;
```

3. EXPLANATION OF MESSAGE

`a` = Name of the SG data base to be processed. Valid value(s):

`broot`	= Backup (/broot) full-configuration data base (valid only if backup file system is mounted).
`brootdmly`	= Backup (/broot) minimum-configuration data base (valid only if backup file system is mounted).
`root`	= Root copy of full-configuration data base.
`rootdmly`	= Root copy of minimum-configuration data base.
	= The pathname of a data base file.

`b` = Pathname of the directory containing the mask description files. The default is /lla/sgmasks.

`c` = Formtype name of form to be reviewed. Valid names are listed in the Recent Change and Verify User's Guide.

`d` = Keyword_data_pairs-This argument is in the general form of a keyword and an argument, where keyword is usually a form key field name, and argument is the data for that field. Valid key field names and argument values are listed in the Recent Change and Verify User's Guide. The '`d`' argument must be in one of the following formats:
keyword, ...
keyword=data, ...
SET=keyword, ...
SET=keyword&data, ...
ABORTFORM, ...

All key fields must be specified.
Note: Fatal errors are written to /etc/0mteed.err.

4. SYSTEM RESPONSE

`OK` = Good. Input line successfully processed.

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`PF` = Printout follows. Followed by RCV:DMTSG-VFY output message.

`?E` = An error exists in the message. May also include:
- `n ERROR MESSAGE LINES` = Enter "MSG!" '`n`' times, to view '`n`' messages.
- `NO MORE ERROR MESSAGES` = All errors have been viewed.
- `n WARNING MESSAGES LINES` = Enter "MSG!" '`n`' times, to view '`n`' messages.

5. REFERENCES

Input Message(s):

```
RCV:DMTECD-RC
RCV:DMTECD-VFY
RCV:DMTSG-RC
RCV:M-RCVECD
RCV:M-RCVSG
```

Output Message(s):

```
RCV:DMTSG-VFY
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x *ECD/SG Data Base*

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RCV:M-ACCED

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the switch access dictionary editor tool (ACCED) be run. In an ACCED session, the following office-dependent database (ODD) error detection and correction operations are available: DESTROY, HASHSIM, OVERWRITE, REORG, REVIEW, and SCAN.

WARNING: Incorrect use of OVERWRITE and DESTROY operations in ACCED can cause serious damage to a system database. ACCED's OVERWRITE and DESTROY operations should never be used without expert technical assistance.

The DESTROY operation destroys a single data page, a single intermediate date page, or an entire relation. The HASHSIM operation simulates staged hashing to help determine optimal hashing parameters for database reorganization of hashed relations. The OVERWRITE operation overwrites one, two, or four bytes of ODD data. The REORG operation executes a manual reorganization of an ODD relation. The REVIEW operation supports several ways to review disk and memory ODD data. The SCAN operation searches an ODD relation for corruption one tuple at a time. Each ACCED operation has an associated output message that is printed only when output message printing is activated (this is accomplished by typing '`p`' at any prompt in ACCED).

2. FORMAT

```
RCV:MENU:ACCED;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been received. The user will now be put into the ACCED session. A completion message will follow when the ACCED session is terminated.

5. REFERENCES

Output Message(s):

```
REPT:ACCED-ACCDIC
REPT:ACCED-DATA
REPT:ACCED-DESTRO
REPT:ACCED-HASHSI
REPT:ACCED-INFO
```

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```
REPT:ACCED-OVERWR
REPT:ACCED-REORG
REPT:ACCED-SCAN
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-600-100 *Translations Data*

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RCV:M-APPRC

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Runs the switch office-dependent data (ODD) application recent change (APPRC) and verify functions.

2. FORMAT

```
RCV:MENU,APPRC[,VERBOSE][,PRINT|,NPRINT][,DETAIL|,NDETAIL];
```

3. EXPLANATION OF MESSAGE

`DETAIL` = Print a detailed summary of each RC/V operation performed on the ROP.

`NDETAIL` = Do not print a detailed summary (default).

`NPRINT` = Do not print the RC/V form. If the user specifies the "P" option, the request is denied if the NPRINT option was entered (default).

`PRINT` = Print the RC/V form at the RC/V printer if the user requests it (by specifying the "P" option).

`VERBOSE` = Turn on one-line logging message of recent changes (RCs) on the receive-only printer (ROP) for the current session only. The default is no logging.

The verbose logging has the following format: RCV SUCCESS|FAILURE RC/V-Form-Name RC-Operation Key(s) TERM-ID=terminal-name

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been received. The user will now be put into the recent change session. A completion message will follow when the session is terminated.

5. REFERENCES

Output Message(s):

```
RCV:SUCCESS
RCV:FAILURE
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-221 *Recent Change Procedures - Batch Release*
235-118-222 *Recent Change Menu/Text Interface*
235-118-251 *Recent Change Procedures*

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235-118-25x *Recent Change Reference*
235-600-10x *Translations Data*
235-600-20x *Dynamic Data*

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RCV:M-BKUPCHK

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests that the validity of /no5text/bkup/*.ptn files be checked. The validity check is done by comparing the check sum value of each /no5text/bkup/*.ptn file against the sum value stored in /no5text/bkup/bkupsum file.

2. FORMAT

```
RCV:MENU:BKUPCHK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU-BKUPCHK output message.

5. REFERENCES

Output Message(s):

```
RCV:MENU-BKUPCHK
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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RCV:M-BROWSE

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Reads or patches an administrative module database using the "browse" tool. This tool is not supported on the maintenance terminal (MCRT) or on a Switching Control Center (SCC) terminal.

WARNING: Incorrect use of this message can cause serious damage to a system database. It should never be used without expert technical assistance.

2. FORMAT

```
RCV:MENU,BROWSE[,STDIN="a"][,STDOUT="b"][,STDERR="c"];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file to be used for redirection of standard input.

`b` = Pathname of the file to be used for redirection of standard output.

`c` = Pathname of the file to be used for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

```
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
```

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```
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

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RCV:M-CNIDBOC

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the common network interface data base consolidator (CNIDBOC) be run.

WARNING: Using the CNIDBOC tool to perform insert, delete, and update operations by-passes the normal form of checking that Recent Change and Verify (RC/V) uses. If used improperly, common channel signaling (CCS) service degradation could result.

2. FORMAT

```
RCV:MENU:CNIDBOC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been received. The user will now be put into the CNIDBOC session. A completion message will follow when the session is terminated.

5. REFERENCES

Output Message(s):

```
RCV:MENU
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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RCV:M-CNIGROWTH

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests that the common network interface (CNI) growth script be executed.

2. FORMAT

```
RCV:MENU:CNIGROWTH;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been received. The user will now be put in the CNIGROWTH session. A completion message will follow when the session is terminated.

5. REFERENCES

None.

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RCV:M-COMPAREDB

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Compares the equipment configuration database (ECD) and the system generation (SG) database. It creates three files for each formtype:

outdir/keycmp/formtype = Contains form keys in three columns, keys found only in the ECD, keys only found in SG, and keys found in both ECD and SG.

outdir/keycomm/formtype = Contains form keys found in both ECD and SG in one column.

outdir/fdiff/formtype = Contains a comparison of all forms that are in both ECD and SG.

In each case "outdir" and "formtype" are replaced by the arguments entered with the keywords OUTDIR and FORM, respectively.

RCV:M-CMPRDB is usually preceded by executing RCV:M-NEWDB.

2. FORMAT

```
RCV:MENU,COMPAREDB,RCV="a"[,MASKS="b",]DB1="c",NEWDIR1="d",
DB2="e",NEWDIR2="f",OUTDIR="g"[,FORM="h"][,STDERR="i"];
```

3. EXPLANATION OF MESSAGE

`a` = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).

`b` = Pathname of the directory containing the mask files used by RC/V. Default= /lla/ecdmasks, or /lla/sgmasks.

`c` = Name of ECD or SG data base for DB1. Valid value(s):

`broot`	= Backup (/broot) full-configuration data base (valid only if backup file system is mounted).
`brootdmly`	= Backup (/broot) minimum-configuration data base (valid only if backup file system is mounted).
`incore`	= In-core copy.
`root`	= Root copy of full-configuration data base.
`rootdmly`	= Root copy of minimum-configuration data base.
	= The pathname of a data base file.
Note:	Any data base name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.

`d` = Pathname of the directory which contains all the keys for DB1.

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`e` = Pathname of ECD or SG data base for DB2.

`f` = Pathname of the directory which contains all the keys for DB2.

`g` = Pathname of the output directory where the comparison will be written.

`h` = Form type(s) to be compared. Up to 20 may be entered. Valid form types are listed in the Recent Change and Verify User's Guide.

`i` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

```
RCV:M-BROWSE
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

Other Manual(s):
235-600-30x *ECD/SG Data Base*

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RCV:M-CREATEECD

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a skeleton equipment configuration database (ECD) be generated.

2. FORMAT

```
RCV:MENU,CREATEECD,DB="a"[,AUDINST=b][,APHORT=b][,APHUSER=b]
[,AUDREC=b][,BTIHDEV=b][,BXSLLOC=b][,BXSLRMT=b][,DEVICE=b]
[,LOGDEV=b][,MDCT=b][,RUNA=b][,TSAPINFO=b][,UCB=b][,ULARP=b]
[,WORKHRS=b];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the database skeleton to be created.

`b` = Estimated number of records to be contained in the specified set. The correct choice of values can reduce disk fragmentation and decrease processor time by eliminating unnecessary growth.
Note: Message errors are written to /etc/createecd.err.

4. SYSTEM RESPONSE

`OK` = Good. Requested action initiated and completed.

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

```
RCV:DMTECD-RC
RCV:DMTSG-RC
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
```

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```
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x *ECD/SG Data Base*

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RCV:M-CREATESG

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Generates a skeleton system generation (SG). database

2. FORMAT

```
RCV:MENU,CREATESG,DB="a"[,PACK=b][,PROCESS=b][,SHARE=b];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the database skeleton to be created.

`b` = Estimated number of records to be contained in the specified set. The correct choice of these values can reduce disk fragmentation and decrease processor time by eliminating unnecessary growth of internal access structures.
Note: Message errors are written to /etc/createsg.err.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

```
RCV:DMTECD-RC
RCV:DMTSG-RC
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
```

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```
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

Other Manual(s):
235-600-30x *ECD/SG Data Base*

RCV:M-EVOL

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Invokes a specified recent change activity; this format is used to evolve a new database from an old one. The databases are in dump format.

2. FORMAT

```
RCV:MENU,EVOL,OLD="a",DB="b",ORDER="c",NEW="d";
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the old database in dump/load format. This file was previously created by RCVECD or RCVSG upon insertion of the db_dump form.

`b` = Pathname of the translation database.

`c` = Pathname of the file containing the specification of the order of evolution; that is, the order in which new form types should appear in 'd'.

`d` = Pathname of the file to contain the evolved database in dump/load format. This file will be used as input to RCVECD or RCVSG upon insertion of the db_load form.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

```
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
```

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```
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

RCV:M-FATLP

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the fault analysis trouble locating procedure (FATLP) tool be run.

2. FORMAT

```
RCV:MENU:FATLP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been received. The user is put into the FATLP session. A completion message follows when the session is terminated.

5. REFERENCES

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-900-304 *Recent Change Operations Systems Interface Specification*

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RCV:M-FDIFF

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Compares of two form types. It compares the first form from PFILE1 with the first form from PFILE2, and continues this process for each successive form until reaching the end of the file. If any pair of forms should differ RCV:M-FDIFF prints the two database names, the form type, the form key(s), and the lines that differ.

2. FORMAT

```
RCV:MENU,FDIFF,MASK="a",PFILE1="b",PFILE2="c"
[,STDOUT="d"][,STDERR="e"];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the mask file associated with the form type.

`b` = Pathname of the first printfile. (Usually the output of RCV:M-PRINTFRM which uses the output of RCV:M-KEYCOMM.)

`c` = Pathname of the second printfile. (Usually the output of RCV:M-PRINTFRM which uses the output of RCV:M-KEYCOMM.)

`d` = Pathname of the file for redirection of standard output.

`e` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

```
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
```

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```
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

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RCV:M-GENBKUP

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic generic backup process be started. The process makes copies of disks for backup purposes. The user will be prompted for selection of options for all necessary steps. Available options are: make backup tapes for administrative module (AM) and switching module (SM) text, and AM and SM office dependent data (ODD); make software backup disk for the primary disk pair (moving head disk (MHD) pair 0 and 1 copied to MHD 14 and 15); verify tape (verify that a tape is readable); and identify tape (identify the contents of a tape); and make tape operating procedure (TOP) tape.

It is strongly advised that the user follow the procedure for full office backup described in the Routine Operations and Maintenance manual.

2. FORMAT

```
RCV:MENU:GENBKUP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU-GENBKUP output message.

5. REFERENCES

Output Message(s):

```
RCV:MENU-GENBKUP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

195 (GENBKUP)

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RCV:M-IREX

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Invokes the installation routine exercise (IREX) user interface tool.

2. FORMAT

```
RCV:MENU:IREX;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF`	= Printout follows. The request has been received. The user is put into the IREX session. A completion message follows when the session is terminated.

5. REFERENCES

None.

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RCV:M-KEYCMP

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Compares of two sorted keyfiles. The comparison consists of three files: keys only in file a, keys only in file b, and keys in file a and file b.

2. FORMAT

```
RCV:MENU,KEYCMP,KFILE1="a",KFILE2="b"[,STDOUT="c"]
[,STDERR="d"];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the first keyfile.

`b` = Pathname of the second keyfile.

`c` = Pathname of the file for redirection of standard output.

`d` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN

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```
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

RCV:M-KEYCOMM

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Creates, on the standard output, a list of all keys that are common to two sorted keyfiles. If the output from this input message is directed to a file, the file may be used as input to RCV:M-PRINTFRM.

2. FORMAT

```
RCV:MENU,KEYCOMM,KFILE1="a",KFILE2="b"[,STDOUT="c"]
[,STDERR="d"];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the first keyfile.

`b` = Pathname of the second keyfile.

`c` = Pathname of the file for redirection of standard output.

`d` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

```
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
```

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```
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

RCV:M-KEYS

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Creates a sorted list of form keys for all the instances of a given form type found in the equipment configuration database (ECD) and the system generation (SG) database.

2. FORMAT

```
RCV:MENU,KEYS,RCV="a"[,MASKS="b",]DB="c",FORM="d",KFILE="e"
[,STDERR="f"];
```

3. EXPLANATION OF MESSAGE

`a` = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).

`b` = Pathname of the directory containing the mask files used by RC/V. Default= /lla/ecdmasks or /lla/sgmasks.

`c` = Name of the database to be processed. Valid value(s):

- `broot` = Backup (/broot) full-configuration database (valid only if backup file system is mounted).
- `brootdmly` = Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
- `incore` = In-core copy.
- `root` = Root copy of full-configuration database.
- `rootdmly` = Root copy of minimum-configuration database.
- blank = The pathname of a database file.
  Note: Any database name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.

`d` = Form type associated with the desired keys. Valid form types are listed in the Recent Change and Verify User's Guide.

`e` = Pathname of the file name to be used for listing the desired keys.

`f` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

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Input Message(s):

```
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

Other Manual(s):
235-600-30x *ECD/SG Data Base*

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RCV:M-LOADF3B

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes a specified recent change activity. This format is used to create a database in loadfile format from a set of database files.

2. FORMAT

```
RCV:MENU,LOADF3B,DB="a"&b,LF="c"&d[&"e"][,STDERR="f"];
```

3. EXPLANATION OF MESSAGE

`a` = Full root pathname of the equipment configuration database (ECD) (for example, /tmp/dmert.ecd). This is the file from which the loadfile will be generated.
Note: Any database name used in the RCV:M-CREATEECD input message may be used here.

`b` = Page size of '`a`', specified as the number of bytes, in decimal notation.

`c` = Pathname of the loadfile, which contains the load image of the database.

`d` = Virtual address where the loadfile is to be loaded, in decimal notation.

`e` = Optional argument used to specify the number of bytes (in decimal) to be built into '`c`' for growth. All instances of '`e`' should be in multiples of the page size '`b`'. The default for this argument will be the size of any free space within the current segment.

`f` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`OK` = Good. Requested action initiated and completed.

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL

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```
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

Other Manual(s):
235-600-30x *ECD/SG Data Base*

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RCV:M-NEWDB

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Creates a sorted list of keys for all form types in the equipment configuration database (ECD) and the system generation (SG) database. A sorted key file for each form type is written in d/keys/formtype where "d" is the argument that is entered with the OUTDIR keyword and "formtype" is the name of the form type. This message creates key lists for all data form types, that is all form types listed by klist of recent change and verify (RC/V).

2. FORMAT

```
RCV:MENU,NEWDB,RCV="a"[,MASKS="b",]DB="c",OUTDIR="d"
[,STDERR="e"];
```

3. EXPLANATION OF MESSAGE

`a` = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).

`b` = Pathname of the directory containing the mask files used by RC/V. Default= /lla/ecdmasks or /lla/sgmasks.

`c` = Name of the database to be processed. Valid value(s):

`broot`	= Backup (/broot) full-configuration database (valid only if backup file system is mounted).
`brootdmly`	= Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
`incore`	= In-core copy.
`root`	= Root copy of full-configuration database.
`rootdmly`	= Root copy of minimum-configuration database.
	= The pathname of a database file.

Note: Any database name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.

`d` = Pathname of the output directory where keylist files will be placed. This directory will be created if it does not exist.

`e` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

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Input Message(s):

```
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

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RCV:M-ODBE

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5
Type: Input

1. PURPOSE

Requests that the office database editor tool (ODBE) be run.

2. FORMAT

```
RCV:MENU:ODBE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been received. The user will now be put into the ODBE session. A completion message will follow when the session is terminated.

5. REFERENCES

Other Manual(s):

235-105-110	*System Maintenance Requirements and Tools*
235-105-210	*Routine Operations and Maintenance*
235-105-220	*Corrective Maintenance*
235-600-100	*Translations Data*

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RCV:M-PRINTDB

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Creates files of form instances when specified data form type(s) from the equipment configuration database (ECD) and the system generation (SG) database are given. The keyfile for "formtype" is found in d/keys/formtype, and the file of the form instances is created in d/print/formtype, where "d" is the argument that is entered with the OUTDIR keyword and "formtype" is a file name corresponding to the type of form to be printed.

2. FORMAT

```
RCV:MENU,PRINTDB,RCV="a"[,MASKS="b",]DB="c",OUTDIR="d"
[,FORM="e"][,STDERR="f"];
```

3. EXPLANATION OF MESSAGE

`a` = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).

`b` = Pathname of the directory containing the mask files used by RC/V. Default= /lla/ecdmasks or /lla/sgmasks.

`c` = Name of the database to be processed. Valid value(s):

`broot`	= Backup (/broot) full-configuration database (valid only if backup file system is mounted).
`brootdmly`	= Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
`incore`	= In-core copy.
`root`	= Root copy of full-configuration database.
`rootdmly`	= Root copy of minimum-configuration database.
	= The pathname of a database file.

Note: Any database name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.

`d` = Pathname of the output directory.

`e` = Form type or types that are to be printed. Up to 20 may be entered. Valid form types are listed in the Recent Change and Verify User's Guide. Default is all data form types listed by klist in RC/V.

`f` = File for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RCV:MENU output message.

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5. REFERENCES

Input Message(s):

```
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

Other Manual(s):
235-600-30x *ECD/SG Data Base*

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RCV:M-PRINTFRM

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Creates a file of all form instances, given a list of form keys, found in the equipment configuration database (ECD) and the system generation (SG) database.

2. FORMAT

```
RCV:MENU,PRINTFRM, RCV="a"[,MASKS="b",]DB="c",KFILE="d"
,PFILE="e"[,STDERR="f"];
```

3. EXPLANATION OF MESSAGE

`a` = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).

`b` = Pathname of the directory containing the mask files used by RC/V. Default= /lla/ecdmasks or /lla/sgmasks.

`c` = Name of the database to be processed. May be one of the following:

`broot`	= Backup (/broot) full-configuration database (valid only if backup file system is mounted).
`brootdmly`	= Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
`incore`	= In-core copy.
`root`	= Root copy of full-configuration database.
`rootdmly`	= Root copy of minimum-configuration database.

or the pathname of a database file.

Note: Any database name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.

`d` = Pathname of the file that contains the list of form keys.

`e` = Pathname of the file to contain printed form instances.

`f` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RCV:MENU output message.

5. REFERENCES

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Input Message(s):

```
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

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RCV:M-RCVECD

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Reviews or modifies an equipment configuration database (ECD) through recent change (RC). This message is supported from the maintenance teletypewriter (MTTY) only if both STDIN and STDOUT are redirected. This message is not supported over the Switching Control Center (SCC) link.

2. FORMAT

```
RCV:MENU,RCVECD[,DB="a"|,DBF="a"][,TERM=b][,MASKS="c"]
[,DEFAULTS="d"][,PRINT="e"][,ECHO="f"][,g][,h][,i][,j]
[,k][,l][,STDIN="m"][,STDOUT="n"][,STDERR="o"];
```

3. EXPLANATION OF MESSAGE

`DB` = The ECD to be processed is not in loadfile format.

`DBF` = The ECD to be processed is in loadfile format.

`a` = Name of the database to process. May be the pathname of a database file, or:

- `broot` = Backup (/broot) full-configuration database (valid only if backup file system is mounted).
- `brootdmly` = Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
- `incore` = In-core copy.
- `root` = Root copy of full-configuration database.
- `rootdmly` = Root copy of minimum-configuration database.

Note: Any database name used in the RCV:M-CREATEECD input message may be used here.

`b` = Terminal type on which forms are to be displayed. Valid types= VT100, VT52, ADM3A, ADM42, HP2621, GNAT, and DUMB. The default is VT100.

If VT100 is selected, the internal terminal setup options must be correctly initialized. Critical values for On Line Data Integrity System (ODIN) are contained in the fourth grouping, which must be 1010. To check the options, press the setup key, then '5'. To change the options, use the left cursor key to tab to the desired flag, then use '6' to toggle its value. Pressing the setup key returns the terminal to the normal mode of operation.

`c` = Pathname of the directory containing the mask description files. The default is /lla/ecdmasks.

`d` = Pathname of the directory containing the low level mask default files. The default is /lla/defaults.

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`e` = Pathname of the file to be used for writing form instances. This option is independent of JOURNAL.

`f` = Pathname of the file to which the set of key strokes executed during the course of the RC/V session is sent. This file may be reapplied in a later RC/V session as batch input.

`g` = HELP/NHELP option. Valid value(s):

`HELP`	= Enable help messages at the bottom of the screen (default).
`NHELP`	= Disables help messages.

`h` = REVIEW/NREVIEW option. Valid value(s):

`REVIEW`	= Allow only review requests (and disallow insert, delete, and update requests). (default)
`NREVIEW`	= Allow insert, delete, and update requests.

`i` = JOURNAL/NJOURNAL option. Valid value(s):

`JOURNAL`	= Print all forms from insert, delete, and update requests to /etc/rcvecd.jrnl[0,1]. (default)
`NJOURNAL`	= Do not print forms from insert, delete, or update requests to /etc/rcvecd.jrnl[0,1].

`j` = HLMODE/NHLMODE option. Valid value(s):

`HLMODE`	= Enable high level functionality.
`NHLMODE`	= Disables high level functionality (default).

`k` = SYSGEN/NSYSGEN option. Valid value(s):

`SYSGEN`	= Enable the system generation mode of operation. This should only be used when executing a dbload or database evolution because the changes are written into the database as applied rather than at the end of the transaction block.
`NSYSGEN`	= Disable the system generation mode of operation. Changes are not applied to the database until the end of the transaction block.

`l` = PRCMSG/NPRCMSG option. Valid value(s):

`PRCMSG`	= Enable ODIN to print processing messages in the upper right-hand corner of the CRT screen. (default)
`NPRCMSG`	= Disable processing messages.

`m` = Pathname of the file for redirection of standard input.

`n` = Pathname of the file for redirection of standard output.

`o` = Pathname of the file for redirection of standard error.

Note: The error file for this input message is /etc/rcvecd.err.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

```
RCV:DMTECD-RC
RCV:DMTECD-VFY
RCV:DMTSG-RC
RCV:DMTSG-VFY
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x *ECD/SG Data Base*

MCC Display Page(s):

199 (ECD/RCV)

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RCV:M-RCVSG

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Reviews or modifies a system generation (SG) database through recent change (RC). This message is supported from the maintenance teletypewriter (MTTY) only if both STDIN and STDOUT are redirected. This message is not supported over the Switching Control Center (SCC) link.

2. FORMAT

```
RCV:MENU,RCVSG[,DB="a"][,TERM=b][,MASKS="c"][,PRINT="d"][,ECHO="e"]
[,f][,g][,h][,i][,j][,STDIN="k"][,STDOUT="l"][,STDERR="m"];
```

3. EXPLANATION OF MESSAGE

`a` = Name of the SG database to be processed. May be the pathname of a database file, or:

- `broot` = Backup (/broot) full-configuration database (valid only if backup is mounted).
- `brootdmly` = Backup (/broot) minimum-configuration database (valid only if backup is mounted).
- `root` = Root copy of full-configuration database.
- `rootdmly` = Root copy of minimum-configuration database.

Note: Any database name used in the RCV:M-CREATESG input message may be used here.

`b` = Terminal type on which forms are to be displayed. Valid types are VT100, VT52, ADM3A, ADM42, HP2621, GNAT, and DUMB. The default is VT100.

If VT100 is selected, the internal terminal setup options must be correctly initialized. Critical values for On Line Data Integrity System (ODIN) are contained in the fourth grouping, which must be 1010. To check the options, press the setup key, then '5'. To change the options, use the left cursor key to tab to the desired flag, then use '6' to toggle its value. Pressing the setup key returns the terminal to the normal mode of operation.

`c` = Pathname of the directory containing the mask description files. The default is /lla/sgmasks.

`d` = Pathname of the file to be used for writing form instances. This option is independent of JOURNAL.

`e` = Pathname of the file to which the set of key strokes executed during the course of the RC/V session is sent. This file may be reapplied in a later RC/V session as batch input.

`f` = HELP/NHELP option. Valid value(s):

- `HELP` = Enable help messages at the bottom of the screen (default).
- `NHELP` = Disables help messages.

`g` = REVIEW/NREVIEW option. Valid value(s):

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REVIEW = Allow only review requests (and disallow insert, delete, and update requests) (default).
NREVIEW = Allow insert, delete, and update requests.

h = JOURNAL/NJOURNAL option. Valid value(s):
JOURNAL = Print all forms from insert, delete, and update requests to /etc/rcvsg.jrnl[0,1] (default).
NJOURNAL = Do not print forms from insert, delete, or update requests to /etc/rcvsg.jrnl[0,1].

i = SYSGEN/NSYSGEN option. Valid value(s):
SYSGEN = Enable the system generation mode of operation. This should only be used when executing a dbload or database evolution because the changes are written into the database as applied rather than at the end of the transaction block.
NSYSGEN = Disable the system generation mode of operation. Changes are not applied to the database until the end of the transaction block (default).

j = PRCMSG/NPRCMSG option.
PRCMSG = Enables ODIN to print processing messages in the upper right-hand corner of the CRT screen (default).
NPRCMSG = Disables processing messages.

k = Pathname of the file for redirection of standard input.

l = Pathname of the file for redirection of standard output.

m = Pathname of the file for redirection of standard error.
Note: The error file for this message is /etc/rcvsg.err.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:DMTECD-RC
RCV:DMTECD-VFY
RCV:DMTSG-RC
RCV:DMTSG-VFY
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG

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```
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

Other Manual(s):
235-600-30x *ECD/SG Data Base*

MCC Display Page(s):

198 (SG/RCV)

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RCV:M-RDLDFT

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that tape data of either smtext (text code that resides on switching modules (SMs)) or SM office-dependent data (SMODD) be read in to a disk or a pair of disks other than the primary disk pair.

2. FORMAT

```
RCV:MENU:RDLDFT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK	= Interactive questions on tape content (smtext or smodd), tape drive and volume table of contents (VTOC); only for smodd) will appear on the requesting terminal.

5. REFERENCES

Other Manual(s):
235-105-250 *System Recovery Procedures*

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RCV:M-RTAG

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the automated pack return tag (RTAG) tool be run.

2. FORMAT

```
RCV:MENU:RTAG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been received. The user is put into the RTAG session. A completion message follows when the session is terminated.

5. REFERENCES

Input Message(s):

```
RCV:M-SCREEN
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-220 *Corrective Maintenance*
235-900-304 *Operations System Interface*

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RCV:M-SCREEN

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5
Type: Input

1. PURPOSE

Runs the *5ESS®* switch screen program that allows the office user to run the *UNIX®* shell, office-dependent data (ODD) database editor (ODBE) and common network interface data base operation consolidator (CNIDBOC), access editor (ACCED) and circuit return tag tool (RTAG) from a recent change and verify (RC/V) terminal, with page-at-a-time output.

2. FORMAT

```
RCV:MENU:SCREEN;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF`	= Printout follows. The request has been received. The system will attempt to run the screen process. A REPT:SCREEN output message will follow when the session is completed.

5. REFERENCES

Output Message(s):

```
REPT:SCREEN
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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RCV:M-SH

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5
Type: Input

1. PURPOSE

Requests an escape to the shell (enter cntl-d to return).

2. FORMAT

```
RCV:MENU,SH;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the shell prompt "`#`" when entering the shell and "`RCV MENU SH COMPLETED`" when exiting the shell.

5. REFERENCES

Other Manual(s):
235-700-200 *UNIX® System Reference*

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RCV:M-TRANSGEN

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes a specified recent change activity; this format is used to create a translation database when a tree address space and translation specifications are given. The database is input to Data Base Management System Evolution System (EVOL).

2. FORMAT

```
RCV:MENU,TRANSGEN,IN="a",TRANS="b"[,HOOK="c"][,DB="d"]
[,TREE="e"][,ECHO="f"][,STDERR="g"];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the input file that contains the software demand paging (SDP) address space that describes old and new form specifications; constructed by TREEBLD and input to TRANSGEN.

`b` = Pathname of the file containing the translation specifications.

`c` = Pathname of the file of C structures to be produced by TRANSGEN and used by EVOL to invoke semantic hooks.

`d` = Pathname of the translation data base.

`e` = Pathname of the file that will contain a human-readable dump of 'a' after being modified by TRANSGEN.

`f` = Pathname of the file that contains echo output of input specifications.

`g` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RCV:MENU output message.

5. REFERENCES

Input Message(s):

```
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
```

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```
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

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RCV:M-TREEBLD

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes a specified recent change activity; this format is used to build a tree address space given the old and new form specifications. The tree is input to TRANSGEN.

2. FORMAT

```
RCV:MENU,TREEBLD,OLD="a",NEW="b",OUT="c"[,TREE="d"]
[,ECHO="e"][,STDIN="f"][,STDOUT="g"][,STDERR="h"];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file that contains old domain and form specifications.

`b` = Pathname of the file that contains new domain and form specifications.

`c` = Pathname of the output file that will contain the software demand paging (SDP) address space that describes old and new form specifications; constructed by TREEBLD and input to TRANSGEN.

`d` = Pathname of the file that contains a human-readable dump of 'c'.

`e` = Pathname of the file that contains echo output of input specifications.

`f` = Pathname of the file for redirection of standard input.

`g` = Pathname of the file for redirection of standard output.

`h` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-BROWSE
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-LOADF3B

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```
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-VFYDFLT
```

Output Message(s):

```
RCV:MENU
```

RCV:M-VFYDFLT

Software Release: 5E15 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Checks the syntax of the specified default file (corresponding to the low level recent change and verify (RC/V) equipment configuration data base (ECD) form of the same name), and verifies the low level field names and values contained therein are legal for that low level form.

2. FORMAT

```
RCV:MENU,VFYDFLT, EFILE="a" ,DFILE="b" [,MDIR="c"] [,DDIR="d"]
    [,STDERR="e"];
```

3. EXPLANATION OF MESSAGE

`a` = Pathname of the file to which all error messages will be written.

`b` = Name of the default file to be verified. This must correspond to the name of a RC/V ECD low level mask.

`c` = Directory in which the RC/V ECD masks are located. This is defaulted to /lla/ecdmasks.

`d` = Directory in which default file is located. This is defaulted to /lla/defaults.

`e` = Pathname of the file for re-direction of standard error.

4. SYSTEM RESPONSE

`OK` = Good. Requested action initiated and completed.

`PF` = Printout follows. Followed by an RCV:MENU output message.

5. REFERENCES

Input Message(s):

`RCV:M-RCVECD`

Output Message(s):

`RCV:MENU`

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RCV:M-VFYTXT

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that administrative module (AM) tape and disk backups be verified as usable.

2. FORMAT

```
RCV:MENU:VFYTXT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = The system will respond with menus asking the user for input. The explanation of these menus and the procedure is documented in detail in the Routine Operations and Maintenance manual (235-105-210), Section 5, Procedure 44 and 45.

5. REFERENCES

Output Message(s):

```
RCV:MENU-VFYTXT
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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64. REKEY

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REKEY:SLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a change be made to a new key on an encrypted signaling link (SLK).

This message results in a long key exchange on the specified link the next time the link is resynchronized.

2. FORMAT

```
REKEY:SLK=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Output Message(s):

`REKEY:SLK`

Input Appendix(es):

`APP:RANGES`

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65. REPT

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REPT:GRC

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a report of the global recent change (GRC) activity be printed. The NAME field refers to the name of a GRC job. If NAME is not entered, the schedule for all GRC jobs will be displayed. If NAME is entered, a more detailed status of the named job will be reported.

If a named GRC job has been split into sections, the section number MUST be provided using the SECT input message line option. When BATCH is specified, a list of all time-released batch jobs will print. When HISTORY is specified, a history of all input messages executed for all GRC jobs will be printed unless a GRC NAME is specified. When UPDSPEC is specified, a list of the updates defined for all GRC jobs will be printed unless a GRC NAME is specified. When QUERY is specified, the query criteria for all GRC jobs will be printed unless a GRC NAME is specified.

2. FORMAT

```
REPT:GRC[,NAME=a[,SECT=b]][,DEVICE="c"][,BATCH][,HISTORY]
[,UPDSPEC][,QUERY];
```

3. EXPLANATION OF MESSAGE

`BATCH` = Report the current list of recent change/verify (RC/V) batch jobs scheduled.

`HISTORY` = Report the history of input messages executed on this GRC name.

`QUERY` = List the criteria specified for this GRC name.

`UPDSPEC` = List updates specified for this GRC name.

`a` = GRC name (up to 10 characters).

`b` = GRC section number.

`c` = Destination device or file for the report. The device or file name is input as a character string and must be enclosed with double quotation marks. If the input string is prefixed by a slash (/), the destination will be taken as the name of a file. The length of the file name must not exceed 30 characters. If the device name does not start with a slash (/), it must correspond to an output device defined in a "device" record in the equipment configuration database (ECD). The default destination is the name of the default tty device obtained from the environment variable LCHAN.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a REPT:GRC output message.

`NG` = No good. The request was denied. A GRC:ERROR output message will provide the reason

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for failure.

5. REFERENCES

Input Message(s):

```
EXC:GRCPASSWORD
```

Output Message(s):

```
GRC:ERROR
REPT:GRC
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-070-100 *Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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REPT:PLNTHR

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests the status (inhibited or allowed) of the hourly plant report.

2. FORMAT

```
REPT:PLNTHR;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an OP:PLNTHR output message.

5. REFERENCES

Input Message(s):

```
ALW:PLNTHR
INH:PLNTHR
OP:PLNTHR
```

Output Message(s):

```
OP:PLNTHR-PT01A
OP:PLNTHR-PT01B
OP:PLNTHR-PT02A
OP:PLNTHR-PT02B
OP:PLNTHR-PT03
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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REPT:RCHIST

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests an RC batch history of recent changes (RCs) entered into the RC batch delayed-release clerk files. The RC batch delayed-release clerk files are commonly known as RC batch clerk files.

Format 1 outputs the activity of all RCs in the RC batch clerk files. This report has a one-line synopsis, showing the total RCs per status (pending, demand, complete and error) for each RC batch clerk file in the system. This report is commonly used during a retrofit when the evolved RCs are being reapplied to the new software release's office-dependent data (ODD). The reapplication time is lengthy and this report gives the status on the number successful, failed and demand RCs. Format 2 outputs the RC batch history of the selected RCs in the specified RC batch clerk file. The summary RC batch history report displays the information stored in the RC batch header such as view name, status, operation and key data. The detail RC batch history reports displays the RC batch history summary report and the entire RC in view format. This report is commonly used during a retrofit when the evolved RCs are being reapplied to the new software release ODD. When reported on failed RCs it displays the error messages and the view.

2. FORMAT

```
[1]    REPT:RCHIST,ACTIVITY;

[2]    REPT:RCHIST,CLERK=a[,FORMAT={SUMMARY|DETAIL}]
       {,ALL|,b}[,DEST={c|FILE}][,TIME=d-e];
```

3. EXPLANATION OF MESSAGE

`ALL` = Report all RCs. RCs selected could be pending, completed, error, or demand.

`DETAIL` = For each record selected for the report, format entire RC record.
Note: The defaults for selection parameters are COMPLETE and ERROR. These are set when none of the following selection parameters are specified.

`FILE` = Writes the report to a file. If the clerk name is RCNEW the file is in /updtmp/HIST.RCNEW. Otherwise the report is in the file /rclog/HIST.<clerk name>.

`SUMMARY` = For each record selected for the report, format by key only.

`a` = Clerk name.

`b` = Valid value(s):
- `COMPLETE` = Report released RCs that were successfully completed.
- `DEMAND` = Report demand RCs.
- `ERROR` = Report released RCs that failed.
- `PENDING` = Report pending RCs.

`c` = Name of printer to which reports are to be routed. Default is receive-only printer (ROP).

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`d-e` = The range of times between which records are selected. The time fields are specified in month (01-12), day (01-31), year (last two digits of calendar year), hour (00-23), and minute (00-59), format, with no separators. Leading zeros must be specified. The first time field must specify a time earlier than the second time field. Thus, choosing 0101000000 as the first time field and 1231992300 as the second time field would select all records and this time (selecting all records) is the default when no time is specified.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. Followed by an REPT:RCHIST output message.

5. REFERENCES

Input Message(s):

```
OP:RCHIST
STP:RCHIST
```

Output Message(s):

```
OP:RCHIST
REPT:RCHIST
STP:RCHIST
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-22x *Recent Change Procedures Batch Release*

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REPT:SLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a status report of all signaling link (SLK) inhibit alarm flags set (ON). All signaling links whose inhibit alarm flag is set will appear in the output message.

2. FORMAT

```
REPT:SLK:INHALM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
INH:SLK
```

Output Message(s):

```
REPT:SLK-INHALM
```

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REPT:SPACE

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests a report indicating the space available in the specified file system be generated.

2. FORMAT

```
REPT:SPACE,FS="a";
```

3. EXPLANATION OF MESSAGE

`a` = Name of the directory where the file system is mounted.

4. SYSTEM RESPONSE

`PF` = Printout follows. The REPT:SPACE output message will follow.

`NG` = No good. The request was denied. A GRC:ERROR output message will provide the reason for the failure.

5. REFERENCES

Output Message(s):

```
REPT:SPACE
GRC:ERROR
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-070-100 *Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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66. RLS

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RLS:PM-PP-MCTSI

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the release (unlocking) of the port processor's (PP's) postmortem report save area of the specified module controller time slot interchanger (MCTSI) to allow the capture of the next autonomous packet switching unit protocol handler (PSUPH) or packet interface (PI) initialization postmortem reports.

If the postmortem save area is not released manually by this input message, it will be released automatically after holding the last postmortem report for 72hours.

2. FORMAT

```
RLS:POSTMORT,PP,MCTSI=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because the SM is isolated or the MCTSI is out of service.

`NO` = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

`OK` = Good. The message was accepted and the release of the postmortem reports has been completed.

5. REFERENCES

Input Message(s):

```
CHG:PRNTMODE
OP:HISTORY
OP:PM-PP-MCTSI
```

Input Appendix(es):

```
APP:RANGES
```

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RLS:PM-SM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Releases the postmortem save area. Once the postmortem has been printed, it is necessary to release (unlock) the postmortem save area so that the next postmortem can be saved on a subsequent recovery.

If the postmortem save area is not released manually by this input message, it will be released automatically 1hour following the high level initialization. Releasing the postmortem will suppress the 5minute automatic dump.

2. FORMAT

```
RLS:POSTMORT,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because an illegal SM number was specified.

`OK` = The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

`OP:POSTMORT`

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RLS:POSTMORT

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the release of the postmortem save area. Once the postmortem has been printed, it is necessary to release (unlock) the postmortem save area so that the next postmortem can be saved on a subsequent recovery.

If the postmortem save area is not released manually by this input message, it will be released automatically 1hour following a high-level initialization. Releasing the postmortem will suppress the five-minute automatic dump.

2. FORMAT

```
RLS:POSTMORT,CMP=a,{PRIM|MATE};
```

3. EXPLANATION OF MESSAGE

`MATE` = Mate CMP.

`PRIM` = Primary CMP.

`a` = Communication module processor (CMP) number.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because an illegal processor number was specified.

`OK` = The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

```
OP:POSTMORT
```

Other Manual(s):
235-105-250 *System Recovery Procedures*

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RLS:SMST

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the terminal assigned to indicated switching modules (SMs) for switching module system test (SMST) routing be released. This input must be entered at the same terminal to which the SM is assigned.

2. FORMAT

```
RLS:SMST,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The SM is not assigned to the terminal at which this input was entered.

`OK` = Good. The request was accepted and completed. The SM's SMST routing is released.

`RL` = Retry later. May also include:
- `UNABLE TO SERVICE REQUEST` The receiving process is not running. Manually invoke HMimst process and try again.

5. REFERENCES

Input Message(s):

```
OP:SMST
RTE:SMST
```

Output Message(s):

```
OP:SMST
```

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RLS:TESTSET

Software Release: 5E15 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Request that the wireless test set assigned through ASGN:TESTSET will be de-assigned manually so that the wireless service will be returned to the user.

2. FORMAT

```
RLS:TESTSET,TSDN=a{,UCL}
```

3. EXPLANATION OF MESSAGE

`a` = DN of the test set to be de-assigned.

4. SYSTEM RESPONSE

`RL` = Retry later. The request has been denied, probably due to system load.

`PF` = Printout follows. The request has been accepted and is followed by an RLS:TESTSET output message.

5. REFERENCES

Output Message(s):

```
RLS:TESTSET
ASGN:TESTSET
```

Other Manual(s):
230-701-100 *Air Extension^{SM} Reference Guide*
235-701-120 *Air Extension^{SM} User Guide*

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RLS:TRUNK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Releases a trunk that is being held off-hook and out-of-service due to a stop-go signaling error.

2. FORMAT

```
RLS:TRUNK:TKGMN=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Number of trunk group (TG) being released.

`b` = Number of trunk member being released.

4. SYSTEM RESPONSE

`NA` = Not available. Request has not been acknowledged. It is probable that the request has been lost.

`PF` = Printout follows. Request has been accepted. The RLS:TRUNK output message will follow identifying the results of the request.

5. REFERENCES

Output Message(s):

`RLS:TRUNK`

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RLS:WSPOS-A

Software Release: 5E15 - 5E16(1)
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Releases a trunk and line work station (TLWS) test position (TP).

2. FORMAT

```
RLS:WSPOS,TP=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Release unconditionally. To be used when releasing test position from a terminal other than the one the TP is associated with.

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. TP released.

5. REFERENCES

Input Message(s):

`SET:WSPOS`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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RLS:WSPOS-B

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Releases a trunk and line work station (TLWS) test position (TP). If tests are ongoing under this TP, they are automatically cancelled.

2. FORMAT

```
RLS:WSPOS,TP=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Release unconditionally. To be used when releasing test position from a terminal other than the one the TP is associated with.

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. TP released.

5. REFERENCES

Input Message(s):

`SET:WSPOS`

Output Appendix(es):

`APP:TLWS`

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
160 TRUNK & LINE MAINT

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RLS:WSTST

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Stops the test in progress and releases the associated testing hardware [such as, global digital services function (GDSF), transmission test facility (TTF) or directly connected test unit (DCTU)] at the indicated trunk and line work station (TLWS) test position (TP).

2. FORMAT

```
RLS:WSTST,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. The test was stopped and the hardware released.

5. REFERENCES

Input Message(s):

```
CONN:WSJACK
TST:WSDGTL
TST:WSMEAS
TST:WSMET
TST:WSSEND
TST:WSSUPV
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

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160 - TRUNK & LINE MAINT

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67. RMV

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RMV:AIUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an access interface unit common data and control controller (COMDAC) be removed from service.

WARNING: An unconditional removal of a COMDAC while mate side is out of service will result in a duplex failure of the COMDAC.

2. FORMAT

```
RMV:AIUCOM=a-b-c[,CAMPON=d][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number.

`b` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Camp-on time in minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:AIUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:AIUCOM`

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Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1320,y,x (AIU SUMMARY)

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RMV:AIULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) line circuit (LC) be removed from service.

2. FORMAT

```
RMV:AIULC=a-b-c-d[,CAMPON=e][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Camp-on time in minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:AIULC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:AIULC`

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

1323,y,z,x (AIU AP STATUS)

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RMV:AIULP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) line pack (LP) be removed from service.

2. FORMAT

```
RMV:AIULP=a-b-c[,CAMPON=d][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Executes removal unconditionally.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Camp-on time in minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:AIULP output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:AIULP

Input Appendix(es):

APP:RANGES

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MCC Display Page(s):

1320,y,x (AIU SUMMARY)
1323,y,z,x (AIU AP STATUS)

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RMV:AIUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) timeslot group (TSGRP) be removed from service.

2. FORMAT

```
RMV:AIUTSGRP=a-b-c-d[,CAMPON=e][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Executes removal unconditionally.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Common data and control circuit (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e	= Camp-on time in minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:AIUTSGRP output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:AIUTSGRP

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

1321,y,x (AIU TSGRP SUMMARY)

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RMV:AIURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) ring generator (RG) be removed from service.

2. FORMAT

```
RMV:AIURG=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Executes removal unconditionally.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= RG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:AIURG output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:AIURG

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1322,y,x (AIU RG STATUS)

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RMV:ALINK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit model 2 (LU2) or a line unit model 3 (LU3) A-link be removed from service.

2. FORMAT

```
RMV:ALINK=a-b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:ALINK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:ALINK`

Input Appendix(es):

`APP:RANGES`

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RMV:ALIT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an automatic line insulation test (ALIT) circuit in a metallic service unit (MSU) be removed from service.

2. FORMAT

```
RMV:ALIT=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally.
a	= Switching module (SM) number.
b	= MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= MSU board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:ALIT output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ALIT

Input Appendix(es):

APP:RANGES

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RMV:ASC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be removed from service.

2. FORMAT

```
RMV:ASC=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the RMV:ASC output message.

5. REFERENCES

Input Message(s):

```
RST:ASC
```

Output Message(s):

```
RMV:ASC
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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RMV:BICCCADN

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the removal of a single bearer-independent call control (BICC) block from service and the placing of all the call instance codes (CICs) of the specified block into the circuit administration (CADN) out-of-service (OOS) status.

The request also sends a BICC circuit group blocking (CGB) message to the far end to block the addressed BICC CIC block members at the far end. Any CICs in the BICC CIC block that is being removed from service will be blocked so that no new calls can be originated on them at the far end.

The provisioned CICs required by the BICC protocol for each origination point code (OPC) and destination point code (DPC) are divided into blocks of 128 and are stored on switching module (SM)-2000s that are provisioned as being BICC-capable.

A BICC CIC block may be put into out-of-service for circuit administration (OOS CADN).

No more than three requests can be active at any one time.

If a request is issued for a BICC group and CIC block and if a previous request is still active for the same BICC group and CIC block, the second request will be treated as a duplicate request and will not be honored.

WARNING: Using the UCL option could be service-affecting.

2. FORMAT

```
RMV:BICCCADN,BGMN=a-b&&c[,CAMPON=d][,BACKOUT][,KILL][,UCL];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`BACKOUT` = The restore functionality will be invoked if the block is not entirely moved into the OOS CADN status. All CICs that had been successfully moved into OOS CADN status will be restored to active status. If the BACKOUT option is not selected, the restore function will not be invoked if the block is not entirely moved into the OOS CADN status, and those CICs that were successfully moved to OOS CADN status will remain OOS CADN. The BACKOUT option cannot be used if either the KILL option or the UCL option is selected.

`KILL` = Kill all calls.

If any of the CICs still have busy calls on them at the end of the campon interval, these calls will be killed and the entire block will be put into the OOS CADN status.

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UCL = Unconditional.

If the user requests that the BICC CIC block be removed unconditionally, then any CICs that have active calls will have their calls killed immediately and the CICs will be put into the OOS CADN status.

If the user does not request the UCL option, and if there are calls active on some of the CICs of the BICC block specified in the input message, these calls will be camped-on using a time specified by the user or by using a default time. As the calls become idle, the corresponding CICs will be put into the CADN status. While camped onto an entire BICC CIC block, no new calls are allowed on the specified BICC CIC block.

If UCL is selected, the user cannot enter a campon time, select the KILL option, or select the BACKOUT option.

a = BICC trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = CIC for first member of the BICC CIC block.

c = CIC for last member of the BICC CIC block.

d = Camp-on time, measured in minutes. If no time is entered, the default camp-on time is 20 minutes. If the campon interval expires before all of the CICs become idle, the action to be taken will depend on upon the user input.

If the user does not request that all calls be killed, then if any CICs are still busy at the end of the campon time interval these calls will remain alive.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the RMV:BICCCADN output message.

NG = No good. May also include:

- BICC NOT AVAILABLE IN OFFICE. = This office does not support the BICC protocol.
- DUPLICATE REQUEST. = This is a duplicate RMV:BICCCADN request for the same BICC CIC block and CIC group, and will not be allowed.
- HIGH MEMBER NOT LAST IN SAME BLOCK. = The normalized CIC high member is not exactly 127 greater than the low member.
- INVALID BG. = The BICC group entered by the user does not exist.
- INVALID BGMN = The BICC CIC block range is invalid.
- INVALID BICC BLOCK. = The BICC CIC block has no members.
- LOW MEMBER NOT FIRST IN BLOCK. = The normalized CIC low member is not divisible by 128, or is greater than 65408.
- NO MEMBERS IN BICC GROUP. = There are no CIC block members in the BICC group.
- TOO MANY ACTIVE REQUESTS. = No more than three active RMV:BICCCADN are allowed at one time.

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RL = Retry later. May also include:
- DATABASE ERROR. Cannot read the trunk group relation.
- BICCBMOVE IN PROGRESS. A movement of BICC groups is in progress.

5. REFERENCES

Input Message(s):

```
OP:JOBSTATUS
OP:BICC
```

Output Message(s):

```
RMV:BICCCADN
RMV:TRK
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:PORT-STATUS
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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RMV:BTSR

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the bootstrapper board (BTSR) be removed from service.

2. FORMAT

```
RMV:BTSR=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:BTSR output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:BTSR`

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RMV:CCSLK-A

Software Release: 5E15 - 5E19(1)
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Removes a common channel signaling (CCS) link(s) from service by deactivating, inhibiting, or blocking the link(s).

Note: The BLK option will block the last active link to a point code, whether or not the UCL option is used, because BLK is by default, unconditional.

The INH option cannot be used on the last active link to a point code, even if UCL is used.

Conditional removal requests (either individual or range requests) will be honored only to the extent that at least 50% of the equipped links in the link set remain ACT. The UCL option is required to remove the remaining links to the DACT state.

This input message is applicable only for PSU platform CCS7.

WARNING: Care should be taken when using the blocking (BLK) or the deactivating (DACT) option (variable 'e'); misuse of this option may cause blocking or deactivating of all the links to a point code. Only experienced technicians should attempt to use this option.

2. FORMAT

```
RMV:CCSLK,SET=a[&&b],MEMBER=c[&&d],STATE=e[,UCL][,SM=f];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally executes removal of a signaling link. Refer to the PURPOSE section for UCL usage.

`a` = Link set number or lower limit of a range of link set numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. The range of numbers need not start or end with equipped link set numbers.

`b` = Upper limit of a range of link set numbers.

`c` = Link member number or lower limit of a range of link member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped link member numbers.

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`d` = Upper limit of a range of link member numbers.

`e` = Link state. Valid value(s):
- `BLK` = Blocks all traffic from using a link(s).
- `DACT` = Deactivates a link(s).
- `INH` = Except for test and maintenance traffic, inhibits all traffic from the link. The last signaling link may not be inhibited if it would cause common channel signaling to be lost to any DPC.

`f` = Global switching module (GSM) number. CCS GSM number where the link to be removed is located. If no SM number is specified and only one CCS GSM exists in the office, action will be taken on the specified link on that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `NEED GSM NUMBER` = SM was not specified in the input message, and the office has more than one GSM provisioned.

`PF` = Printout follows. Followed by the RMV:CCSLK output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

Output Message(s):

```
REPT:CCSLK
RMV:CCSLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)

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1533 (CCS LINK SET MEMBER)

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RMV:CCSLK-B

Software Release: 5E20(1) and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Removes a common channel signaling (CCS) link(s) from service by deactivating, inhibiting, or blocking the link(s).

The BLK option will block the last active link to a point code, whether or not the UCL option is used, because BLK is by default, unconditional.

The INH option cannot be used on the last active link to a point code, even if UCL is used.

Conditional removal requests (either individual or range requests) will be honored only to the extent that at least 50% of the equipped links in the link set remain ACT. The UCL option is required to remove the remaining links to the DACT state.

This input message is applicable only for PSU platform CCS7.

WARNING: Care should be taken when using the blocking or the deactivating option (variable 'e'); misuse of this option may cause blocking or deactivating of all the links to a point code. Only experienced technicians should attempt to use this option.

2. FORMAT

```
RMV:CCSLK,SET=a[&&b],MEMBER=c[&&d],STATE=e[,UCL][,SM=f];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally executes removal of a signaling link. Refer to the **PURPOSE** section for UCL usage.

`a` = Link set number or lower limit of a range of link set numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. The range of numbers need not start or end with equipped link set numbers.

`b` = Upper limit of a range of link set numbers.

`c` = Link member number or lower limit of a range of link member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped link member numbers.

`d` = Upper limit of a range of link member numbers.

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`e` = Link state. Valid value(s):

- `BLK` = Blocks all traffic from using a link(s).
- `DACT` = Deactivates a link(s).
- `INH` = Except for test and maintenance traffic, inhibits all traffic from the link. The last signaling link may not be inhibited if it would cause common channel signaling to be lost to any DPC.

`f` = Global switching module (GSM) number. CCS GSM number where the link to be removed is located. If no SM number is specified and only one CCS GSM exists in the office, action will be taken on the specified link on that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `– DENIED – OFID 1023 ACTIVE` = The Linkset Removal Prevention feature is active. When the feature is active, removal of an entire linkset is not allowed. The feature can be deactivated by turning off OFID 1023 on RC/V View 8.31 (OPTIONAL FEATURES).
- `– GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `– NO GLOBAL SM` = No GSM is provisioned in the office.
- `– NEED GSM NUMBER` = SM was not specified in the input message and the office has more than one GSM provisioned.

`PF` = Printout follows. Followed by the RMV:CCSLK output message.

`RL` = Retry later. May also include:

- `– SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

Output Message(s):

```
REPT:CCSLK
RMV:CCSLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

MCC Display Page(s):

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1532	CCS LINK SET SUMMARY
1533	CCS LINK SET MEMBER

RC/V View(s):

8.3	OPTIONAL FEATURES

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RMV:CDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be removed from service.

2. FORMAT

```
RMV:CDFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the circuit unconditionally.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = CDFI number. This will disconnect stable calls. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. Optional information:

- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`
- `NOT STARTED UNIT IN GROWTH STATE`

`PF` = Printout follows. Followed by the RMV:CDFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RST:CDFI
```

Output Message(s):

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```
RMV:CDFI
```

Input Appendix(es):

```
APP:RANGES
```

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RMV:CDI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a control data interface (CDI) be removed from service.

2. FORMAT

```
RMV:CDI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally.
a	= Switching module number.
b	= Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:CDI output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:CDI

Input Appendix(es):

APP:RANGES

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RMV:CLNK

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified communication link (CLNK) be removed from service.

2. FORMAT

```
RMV:CLNK=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Office network and timing complex number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Type of module message processor (MMP). Valid value(s):
- `0` = MMP that handles the even control time slot associated with the SM.
- `1` = MMP that handles the odd control time slot associated with the SM.

`d` = Message switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows. Followed by the RMV:CLNK output message.

5. REFERENCES

Output Message(s):

`RMV:CLNK`

Input Appendix(es):

`APP:RANGES`

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RMV:CMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests removal of a communication module processor (CMP) from service.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution!

2. FORMAT

```
RMV:CMP=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Perform any CMP switch unconditionally.

`a` = Message switch side number.

`b` = CMP number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the RMV:CMP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`SW:CMP`

Input Appendix(es):

`APP:CM-IM-REASON`

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Output Message(s):

```
RMV:CMP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)

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RMV:CPE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests removal from service of the specified customer premises equipment (CPE) integrated services digital network (ISDN) terminal on custom multi-point (MP) and standard interface digital subscriber line (DSL).

CPEs on custom MP and standard interfaces can be removed from service. A CPE is removed from service until it:

- Is manually restored using the RST:CPE input message,
- Re-initializes its layer 2 connection automatically, or
- The DSL to which the CPE is connected loses its layer 2 connection and regains it (either automatically or on demand using the RMV:LINE and RST:LINE input messages).

If the CPE removed from service is a member of modem pool group, the analog port of this member is also removed from service and the status of the analog port is marked "OOS MTCE FE MPOOS AUTO".

During the time that the CPE is out-of-service (OOS), the customer served by the CPE will be without service. Both circuit-switched services and packet-switched services will be unavailable. Customers can regain service at their own initiative by powering down the CPE, waiting some amount of time (which is terminal-dependent), and then powering the CPE back up.

Since only one maintenance activity is allowed on a DSL at a given time, this request could be blocked if another maintenance activity is already active. This is true for both conditional and unconditional removal requests.

2. FORMAT

```
RMV:CPE,a[,TEI=h][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the CPE from service unconditionally. This will tear down any active calls associated with the CPE before removing the CPE from service. However, even an unconditional request will be rejected if any other maintenance activity is already in progress on the DSL. If UCL is not specified, the CPE will be removed only if no other maintenance activity is in progress on the DSL and the specified CPE is idle.

`a` = Equipment number or identifier. Valid value(s):

```
AIUEN=d-o-p-q
DN=r
ILEN=d-i-j-k
INEN=d-s-j-k
LCEN=d-e-f-g
LCKEN=d-e-n-l-m
MLHG=b-c
```

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```
PKTDN=r
```

b = Multi-line hunt group (MLHG) number of the subscriber associated with the CPE. This option is valid only if a CPE has associated itself with that MLHG subscriber.

c = Multi-line hunt member number of the subscriber.

d = Switching module (SM) in which the DSL exists.

e = Integrated services line unit (ISLU) or ISLU version 2 (ISLU2) in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line group controller (LGC) in the ISLU/ISLU2 in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Line card of the ISLU line group controller which the DSL connects to. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Terminal endpoint identifier (TEI) that identifies the particular CPE to be removed. The AIUEN|ILEN|INEN|LCEN|LCKEN/TEI identification can be used to remove any in-service (IS) CPE on a DSL. The AIUEN|ILEN|LCEN|LCKEN/TEI identification is the only way to remove a CPE that is not associated with a specific subscriber on the DSL (for example, a CPE that is receiving default service). The TEI is dynamically assigned to a CPE when the CPE establishes its layer 2 connection with the network. The trunk and line work station (TLWS) DSL MCC Display Pages or the OP:CPE input message can be used to determine what CPEs currently have layer 2 established on the DSL and what TEI has been assigned to each CPE.

i = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line board number of. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Access interface unit (AIU) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`r` = Circuit directory number (DN) or packet directory number (PKTDN) of the subscriber associated with the CPE. This option is only valid if a CPE exists that has identified itself as being associated with that subscriber. For key-system services, only primary DNs are valid. For non-key-system services, any DN associated with the subscriber can be used.

`s` = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The input request was in some way invalid, most likely because a value was out of range. Identify the error with the original request and repeat the request.

`PF` = Printout follows. The requested action has been accepted and is being processed. An output RMV:CPE message will be printed that identifies the outcome of the request.

5. REFERENCES

Input Message(s):

```
OP:CPE
RMV:LINE
RST:CPE
RST:LINE
```

Output Message(s):

```
RMV:CPE
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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RMV:CU

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified administrative module (AM) control unit (CU) be removed from the standby state to the out-of-service (OOS) state.

2. FORMAT

```
RMV:CU=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:CU output message.

5. REFERENCES

Input Message(s):

```
DGN:CU
RST:CU
```

Output Message(s):

```
RMV:CU
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)

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RMV:DATALINK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the removal of a data link from service by placing it in the specified out-of-service (OOS) status. If no status is given, a default status (identified below) is assumed. A data link can be identified by its type (AP, DASC, etc.) and group and relative link number or by its equipment number (LCEN, LCKEN, INEN, ILEN, or AIUEN).

If the data link is already OOS, the OOS status will be added to the data link in its proper place in the hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on a data link. Refer to the APP:PORT-STATUS appendix for a more detailed explanation of statuses that apply to data links. If an external data base (XDB) data link is busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested or a camp-on time limit of 0 is specified. If a camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message if desired. If removed unconditionally, the data link is preempted and any communication in progress is torn down. If a data link other than an XDB is busy when the request is made, the conditional request is denied. If an external information system (EIS) data link is busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested or a camp-on time limit of 0 is specified. If camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can be terminated by a STP:CAMPON input message if desired. Unconditional removal of an EIS data link will preempt any communication and calls in progress will be torn down. Conditional removal of an autoquote (AQ), hotel billing center record terminal (HOBICR), hotel billing center voice terminal (HOBICV), Hotel Billing Information System (HOBIS), or XDB data link, is denied if fewer than 50% of the equipped data links of the same type would remain in service after the removal. Conditional removal of a directory assistance system computer (DASC), management information system (MISLNK), remote alarm section (RAS), or Real-Time Rating System (RTRS) data link, is denied if its mate duplex data link is out of service. Conditional removal of an EIS data link is denied if fewer than N data links of the EIS data link group would remain in service after the removal, where N is the EIS data link group's minimum links. Refer to the recent change View 21.52. Conditional removal of an operator services position system (OSPS) administrative processor (OAP) data link is denied if the data link is in service and logged in. For these cases, a completion report of PORT BUSY is returned in the RMV:DATALINK output message. Conditional removal of an AP data link is not permitted. The RMV:DATALINK output message will have a completion report of CAMPON NOT ALLOWED. An OOS condition on a data link may be deleted using the RST:DATALINK input message.

2. FORMAT

```
RMV:DATALINK,a[,CH=b][,c][:[d][,e][,f][,g][,UCL]];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`UCL` = Unconditional removal. Indicates that the data link should be preempted. All stable communication will be disconnected (traffic release).

`a` = Valid value(s):

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AIUEN=l-e[1]-f[1]-g[1] AP=h-i AQ=h-i DASC=h-i EIS=t-u HOBICR=h-i HOBICV=h-i	HOBIS=h-i ILEN=l-v-w-x INEN=l-d[1]-w-x LCEN=l-m-n-o LCKEN=l-m-a[1]-b[1]-c[1] MISLNK=h-i	OAPF=y OAPO=z RAS=h-i RTRS=h-i XDB=h-i

b = Channel identifier [D (default), B1, or B2].

If this option is not specified or if the D-channel is specified, the D-channel and all on-demand service B-channels will be removed from service, but permanent packet B-channels will not be removed. If a B-channel is specified, only that B-channel will be removed from service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be removed from service even if only the D-channel or a B-channel is specified in the input request.

c = Valid value(s):

CAMPON=p UCL

Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS,DSBLD).

d = Basic state. Valid value(s):

- OOS = Out of service (default)

e = Qualifier (choose one or omit). Valid value(s):

- MKBUSY = Make busy. If basic state field 'd' is not specified, it will be defaulted to OOS.
- MTCE = Maintenance (default). If basic state field 'd' is not specified, it will be defaulted to OOS.
- PPSRV = Pre-post service. If basic state field 'd' is not specified, it will be defaulted to OOS.
- TMT = Traffic management (valid only for outgoing trunks). If basic state field 'd' is not specified, it will be defaulted to OOS.

f = Operational restrictions (choose one or omit). Valid value(s):

- DSBLD = Disabled (default). If qualifier field 'e' is not specified, it will be defaulted to MTCE.
- PLGUP = Plug-up (no effect). If qualifier field 'e' is not specified, it will be defaulted to MTCE.
- PX = Power cross. If qualifier field 'e' is not specified, it will be defaulted to MTCE.
- RAP = Recorded announcement port. If qualifier field 'e' is not specified, it will be defaulted to MTCE.

  Note: If the entire port status is omitted the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values

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indicated will be assumed.

g = Supplementary information (choose one or omit). This field is used to record the reason for removal. Valid value(s):

AML	= Automatic maintenance limit
AUDIT	= Audit detected problem
CAMA	= Central automatic message accounting
CAROT	= Centralized automatic reporting on trunks
CDI	= Control and data interface
CKT	= Circuit
CTTU	= Central trunk testing unit
DFI	= Digital facility interface
FORPOT	= Foreign potential
GRD	= Ground fault
GRID	= Line unit grid
IAA	= Ineffective attempt analysis
ISLU	= Integrated services line unit
PCTF	= Per-call test failure
PPM	= Periodic pulse metering
PSU	= Packet switch unit
REX	= Routine exercise
RO	= Routine other
ROTF	= Operational trouble
SCC	= Switching control center
SPARED	= Line involved in ISLU sparing configuration
TICOM	= Treated interface common circuit
TRBL	= Unspecified trouble
TRBLORG	= Origination trouble
TRKBD	= Trunk board
TRKCT	= Trunk circuit

h = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Switching module (SM) number.

m = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Time limit specified in minutes (0-1438). A camp-on time limit of 0 indicates that no camp-on

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will be performed if the line is traffic busy.

t = EIS identifier (ID) on which the CPDL terminate. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and will be followed by a RMV:DATALINK output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

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Input Message(s):

```
OP:STATUS
RST:DATALINK
STP:CAMPON
```

Output Message(s):

```
REPT:CAMPON
RMV:DATALINK
```

Input Appendix(es):

```
APP:RANGES
```

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RMV:DCI

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Removes the specified dual serial channel/computer interconnect (DCI) from service.

2. FORMAT

```
RMV:DCI=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:DCI output message.

`RL` = Retry later. The system is in overload condition.

`?D` = General syntax error in the data field, followed by the parameter position and the following reason:
`INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.

`?I` = General syntax error, followed by the parameter position and one of the following reasons:
`EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
`INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
`MISSING KEYWORD` = A required keyword is missing from the input.

5. REFERENCES

Input Message(s):

```
DGN:DCI
RST:DCI
```

Output Message(s):

```
DGN:DCI
RMV:DCI
RST:DCI
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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RMV:DCLU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a *SLC*®96 digital carrier line unit (DCLU) be removed from service.

2. FORMAT

```
RMV:DCLU=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally, dropping stable calls.

`a` = Switching module (IM or SM) number.

`b` = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the RMV:DCLU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`STP:DCLU`

Output Message(s):

`RMV:DCLU`

Input Appendix(es):

`APP:RANGES`

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RMV:DCTUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a directly connected test unit common board (DCTUCOM) circuit be removed from service.

2. FORMAT

```
RMV:DCTUCOM=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module (SM) number.

`b` = Directly connected test unit number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:DCTUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:DCTUCOM`

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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RMV:DCTUPORT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a directly connected test unit port circuit (DCTUPORT) be removed from service.

2. FORMAT

```
RMV:DCTUPORT=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:DCTUPORT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:DCTUPORT`

Input Appendix(es):

`APP:RANGES`

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RMV:DFC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a specified disk file controller (DFC) and any associated moving head disks (MHDs) be removed from service.

2. FORMAT

```
RMV:DFC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:DFC output message.

5. REFERENCES

Input Message(s):

```
DGN:DFC
DGN:MHD
RMV:MHD
RST:DFC
RST:MHD
```

Output Message(s):

```
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RST:DFC
RST:MHD
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:DFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital facility interface (DFI) be removed from service.

WARNING: DFI containing packet pipe (PP) or packet pipe member (PPM) can not be removed conditionally. Doing so may result in the DFI being marked as degraded. An unconditional (UCL) remove input message is needed to completely remove DFI with PP or PPM.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a DFI can be conditionally removed only if any CCS signaling data links (SDLs) on this DFI are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a DFI may impact CCS operations.

2. FORMAT

```
RMV:DFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by an RMV:DFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Output Message(s):

```
RMV:DFI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-190-120 *Common Channel Signaling Services Features*

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RMV:DFIH

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) be removed from service. The system will attempt to move traffic present on the associated facility to other facilities serving the same RISLU. If the facility cannot be made available immediately then a conditional remove request will wait (camp-on) until the facility becomes available or the camp-on period expires.

WARNING: An unconditional remove request does not camp-on and will result in the unit dropping stable calls unless traffic can be moved to other facilities.

2. FORMAT

```
RMV:DFIH=a-b-c[,CAMP=d][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = Switching module (SM) number.

`b` = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Allow a maximum of '`d`' minutes for camp-on time. If CAMP is not specified, camp-on defaults to 3 minutes. Maximum camp-on time is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good.
- `CONFLICT WITH UNIT STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the RMV:DFIH output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

RST:DFIH

Output Message(s):

RMV:DFIH

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(RISLU DTLU)

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RMV:DFTAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the distributing frame test access circuit (DFTAC) be removed from service.

2. FORMAT

```
RMV:DFTAC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally. Any existing user of the circuit will be preempted.
a	= Switching module (SM) number.
b	= Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. Invalid SM number, MSU number or service group number.
PF	= Printout follows. Output message will follow with completion status.
RL	= Retry later. The request cannot be executed now due to unavailable system resources (such as SM is not linked).

5. REFERENCES

Input Message(s):

```
ABT:DFTAC
RST:DFTAC
STP:DFTAC
```

Output Message(s):

```
RMV:DFTAC
```

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Input Appendix(es):

```
APP:RANGES
```

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RMV:DIST

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a distribute point board (DIST) be removed from service.

2. FORMAT

```
RMV:DIST=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally.
a	= Switching module number.
b	= Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Distribute point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:DIST output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:DIST

Input Appendix(es):

APP:RANGES

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RMV:DLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a removal of a specific dual link interface (DLI) and places it in the 'OOS MAN RMV' state.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks will be made to see whether removing the DLI will be service affecting. If the removal will affect service, the request will be denied.

If the UCL option is used, the DLI will be removed whether it affects calls or not.

2. FORMAT

```
RMV:DLI=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the DLI unconditionally. This option should only be used when the DLI MUST BE removed from service and a conditional removal is denied.

`a` = Switching module (SM) number that the DLI to be removed is in. (The DLI number and the SM number are the same.)

`b` = Office network and timing complex (ONTC) side that the DLI is on.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

`OP:DMQ`

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```
RST:DLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
OP:DMQ-CM
OP:DMQ-SM
RMV:DLI
```

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RMV:DNUSCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be removed from service.

WARNING: An unconditional removal of a DNUSCC while the mate DNUSCC is out of service will result in a duplex failure of the DNUSCC, degrading maintenance for the unit.

2. FORMAT

```
RMV:DNUSCC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:DNUSCC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:DNUSCC
RST:DNUSCC
STP:DNUSCC
```

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Output Message(s):

```
RMV:DNUSCC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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RMV:DNUSCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be removed from service.

WARNING: An unconditional removal of a DNUSCD while the mate DNUSCD is out of service will result in a duplex failure of the DNUSCD, disrupting service for the entire data group.

2. FORMAT

```
RMV:DNUSCD=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:DNUSCD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
ABT:DNUSCD
RST:DNUSCD
STP:DNUSCD
```

Output Message(s):

```
RMV:DNUSCD
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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RMV:DNUSEOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an digital networking unit - synchronous optical network (DNU-S).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:DNUSEOC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switching module (SM) number.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:DNUSEOC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:DNUSEOC
STP:DNUSEOC
```

Output Message(s):

```
RMV:DNUSEOC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)

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RMV:DNUSTMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an digital networking unit - synchronous optical network (DNU-S).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:DNUSTMC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switching module (SM) number.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:DNUSTMC output message.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:DNUSTMC
STP:DNUSTMC
```

Output Message(s):

```
RMV:DNUSTMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)

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RMV:DS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital signal - level 1 (DS1) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Unconditional removal of a facility may result in loss of calls.

2. FORMAT

```
RMV:DS1=a-b-c-d-e-f-g[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Virtual tributary level 1.5 (VT15) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

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`PF` = Printout follows. Followed by the RMV:DS1 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:DS1
RST:DS1
STP:DS1
```

Output Message(s):

```
RMV:DS1
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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RMV:DS1SFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be removed from service.

WARNING: An unconditional removal of a DS1SFAC will result in preempting stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a DS1SFAC can be conditionally removed only if any CCS signaling data links (SDLs) on this facility are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a DS1SFAC may impact CCS operations.

2. FORMAT

```
RMV:DS1SFAC=a-b-c-d-e-f-g[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` =Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:DS1SFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:DS1SFAC
RST:DS1SFAC
STP:DS1SFAC
```

Output Message(s):

```
RMV:DS1SFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-190-120 *Common Channel Signaling Services Features*

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)

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RMV:DSC

Software Release: 5E15 and later
Command Group: SM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a digital service circuit (DSC) be removed from service.

2. FORMAT

```
RMV:DSC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital service unit board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
RMV:TTFCOM
RMV:UCONF
RMV:UTD
RMV:UTG
```

Input Appendix(es):

```
APP:RANGES
```

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RMV:DUI

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a specified direct user interface (DUI) be removed device from service.

2. FORMAT

```
RMV:DUI=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:DUI output message.

5. REFERENCES

Input Message(s):

```
DGN:DUIC
RMV:DUIC
RST:DUI
RST:DUIC
```

Output Message(s):

```
DGN:DUIC
RMV:DUI
RMV:DUIC
RST:DUI
RST:DUIC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:DUIC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified direct user interface controller (DUIC) be removed from service.

2. FORMAT

```
RMV:DUIC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:DUIC output message.

5. REFERENCES

Input Message(s):

```
DGN:DUIC
DGN:IOP
RMV:IOP
RST:DUIC
RST:IOP
```

Output Message(s):

```
DGN:DUIC
DGN:IOP
RMV:DUIC
RMV:IOP
RST:DUIC
RST:IOP
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:EAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an equipment access network (EAN) be removed from service.

2. FORMAT

```
RMV:EAN=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal.

`a` = Switching module number.

`b` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:EAN output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:EAN`

Input Appendix(es):

`APP:RANGES`

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RMV:EC1STE

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - Electrical Carrier Level 1 SONET Termination equipment facility (EC1STE) be removed from service.

WARNING: An unconditional removal of an EC1STE will result in preempting stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), an EC1STE can be conditionally removed only if any CCS signaling data links (SDLs) on child facilities are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of an EC1STE may impact CCS operations.

2. FORMAT

```
RMV:EC1STE=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:EC1STE output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
ABT:EC1STE
RST:EC1STE
STP:EC1STE
```

Output Message(s):

```
RMV:EC1STE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-190-120 *Common Channel Signaling Services Features*

MCC Display Page(s):

1510 (DNUS STATUS)

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RMV:FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests removal of a remote switching module (RSM) facility (FAC) or a trunk FAC from service.

An RSM FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. A trunk FAC is a inter-office trunk.

WARNING: FAC containing packet pipe (PP) or packet pipe member (PPM) can not be removed conditionally. Doing so may result in the FAC being marked as degraded. An unconditional (UCL) remove input message is needed to remove FAC with PP or PPM. For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a FAC can be conditionally removed only if any CCS signaling data links (SDLs) on this facility are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a FAC may impact CCS operations.

2. FORMAT

```
RMV:FAC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the circuit unconditionally. This will disconnect stable calls.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RSM digital facilities interface (RDFI), inter-RSM communication link digital facilities interface (CDFI), or inter-office trunk digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = FAC number. The FAC number is the T1 facility number on a RDFI, CDFI, or DFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status.
`- NOT STARTED UNIT IN GROWTH STATE` = The unit is in a transient state. It is not

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available at this time.
- `SM DOES NOT EXIST` = The message syntax is valid, but the SM requested does not exist.
- `SM UNEQUIPPED` = The message syntax is valid, but the SM is unequipped.
- `UNIT DOES NOT EXIST` = The message syntax is valid, but the unit does not exist.

`PF` = Printout follows. A RMV:FAC output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RST:FAC`

Output Message(s):

`RMV:FAC`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-190-120 *Common Channel Signaling Services Features*

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RMV:FPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified foundation peripheral controller (FPC) be removed from service.

2. FORMAT

```
RMV:FPC=a;
```

3. EXPLANATION OF MESSAGE

`a` = FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:FPC message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Output Message(s):

`RMV:FPC`

Input Appendix(es):

`APP:RANGES`

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RMV:GDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a global digital services function (GDSF) circuit be removed from service.

2. FORMAT

```
RMV:GDSF=a-b [,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Executes the removal unconditionally. This will preempt users in the process of making a call
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the RMV:GDSF output message.
RL	= Retry later.

5. REFERENCES

Input Message(s):

RST:GDSF

Output Message(s):

RMV:GDSF

Input Appendix(es):

APP:RANGES

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RMV:GDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a global DSU common (GDSUCOM) board be removed from service.

2. FORMAT

```
RMV:GDSUCOM=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = Global digital service unit number.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:GDSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:GDSUCOM`

Input Appendix(es):

`APP:RANGES`

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RMV:GDXACC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a GDX access (GDXACC) be removed from service.

2. FORMAT

```
RMV:GDXACC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:GDXACC output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:GDXACC

Input Appendix(es):

APP:RANGES

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RMV:GDXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint compensator (GDXC) be removed from service.

2. FORMAT

```
RMV:GDXC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally.
a	= Switching module number.
b	= Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Metallic service unit board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:GDXC output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:GDXC

Input Appendix(es):

APP:RANGES

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RMV:GDXCON

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint control (GDXCON) be removed from service.

2. FORMAT

```
RMV:GDXCON=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:GDXCON output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
RMV:GDXCON
```

Input Appendix(es):

```
APP:RANGES
```

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RMV:GQPHPIPE

Software Release: 5E16(2) and later
Command Group: MTCE
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a general quad-link packet switch protocol handler (GQPH) QPIPE be removed from service unconditionally.

WARNING: The unconditional parameter is a required field. SIP services in the office may be impaired by this action.

2. FORMAT

```
RMV:GQPHPIPE=a-b-c-d-e,UCL;
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = Global switching module (GSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = GQPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = QLPS network number (0 or 1, or a range 0&&1 for GQPH QPIPEs on both networks). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT A GSM` = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not a provisioned GSM.
- `SM UNEQUIPPED` = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not even an equipped SM.

`PF` = The request has been accepted. A RMV GQPHPIPE output message will follow specifying the results of the request.

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RL = Retry later. May also include:
- GSM NOT AVAILABLE = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not available, because it is isolated or undergoing an initialization.

5. REFERENCES

Output Message(s):

RMV:GQPHPIPE

Input Appendix(es):

APP:RANGES

RC/V View(s):
17.24 GQPH QPIPE ASSIGNMENT

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RMV:GRC

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the specified global recent change (GRC) job be removed from the switch. This input message deletes every file and directory associated with the job.

2. FORMAT

```
RMV:GRC,NAME=a;
```

3. EXPLANATION OF MESSAGE

`a` = GRC name (up to 10 characters).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. If the remove operation successfully completes, a GRC:STATUS output message follows. If it fails, a GRC:ERROR output message follows.

`NG` = No good. The request was denied. A GRC:ERROR output message follows with an explanation of the problem.

5. REFERENCES

Input Message(s):

```
SCHED:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-070-100 *Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change reference*

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RMV:GRID

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint grid (GRID) be removed from service.

2. FORMAT

```
RMV:GRID=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:GRID output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:GRID

Input Appendix(es):

APP:RANGES

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RMV:GRIDBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be removed from service.

WARNING: Removing a grid board unconditionally will result in the cutoff of stable calls.

2. FORMAT

```
RMV:GRIDBD=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally, dropping all stable calls.

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:GRIDBD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:GRIDBD`

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Input Appendix(es):

```
APP:RANGES
```

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RMV:HDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be removed from service.

2. FORMAT

```
RMV:HDFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the circuit unconditionally. This option will disconnect stable inter-module calls.

`a` = Switching module number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the RMV:HDFI output message.

5. REFERENCES

Input Message(s):

`RST:HDFI`

Output Message(s):

`RMV:HDFI`

Input Appendix(es):

`APP:RANGES`

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RMV:HSD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified high-speed synchronous data link (HSD) subdevice be removed from service.

2. FORMAT

```
RMV:HSD=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:HSD output message.

5. REFERENCES

Input Message(s):

```
DGN:HSDC
RMV:HSDC
RST:HSD
RST:HSDC
```

Output Message(s):

```
DGN:HSDC
RMV:HSD
RMV:HSDC
RST:HSD
RST:HSDC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:HSDC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified high-speed synchronous data link controller (HSDC) be removed from service.

2. FORMAT

```
RMV:HSDC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:HSDC output message.

5. REFERENCES

Input Message(s):

```
DGN:HSDC
RMV:HSD
RST:HSD
RST:HSDC
```

Output Message(s):

```
DGN:HSDC
RMV:HSD
RMV:HSDC
RST:HSD
RST:HSDC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:IDCU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) service group circuit be removed from service.

WARNING: An unconditional removal of an IDCU while the mate side is out-of-service (OOS) will result in a duplex failure of the IDCU.

2. FORMAT

```
RMV:IDCU=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:IDCU output message.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IDCU
STP:IDCU
```

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Output Message(s):

```
RMV:IDCU
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

186 (IDCU CIRCUIT)

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RMV:IDCUELI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be removed from service unconditionally, by preempting the current user.

WARNING: The use of this input message may cause calls to be dropped on the IDCU facilities associated with the ELI being removed.

2. FORMAT

```
RMV:IDCUELI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:IDCUELI output message.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IDCUELI
STP:IDCUELI
```

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Output Message(s):

```
RMV:IDCUELI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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RMV:IDCUEOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:IDCUEOC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:EOC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:IDCUEOC
STP:IDCUEOC
```

Output Message(s):

```
RMV:IDCUEOC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)

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RMV:IDCUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be removed from service.

This input message should only be used to support the growth/degrowth of an IDCU PIDB or DPIDB circuit.

2. FORMAT

```
RMV:IDCUPIDB=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PIDB or DPIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:IDCUPIDB output message.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IDCUPIDB
STP:IDCUPIDB
```

Output Message(s):

```
RMV:IDCUPIDB
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-331 *Hardware Change Procedures*

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RMV:IDCUTMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:IDCUTMC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:TMC output message.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:IDCUTMC
STP:IDCUTMC
```

Output Message(s):

```
RMV:IDCUTMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)

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RMV:IFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: The use of this input message with the SCREEN option could result in the degradation of an IFAC, not necessarily the one indicated in the input message. It could affect a totally unrelated IFAC circuit. This option is used strictly by the page pokes on the MCC display terminal.

2. FORMAT

```
RMV:IFAC=a-b-c [,UCL][,SCREEN=d];
```

3. EXPLANATION OF MESSAGE

`SCREEN` = Used by MCC display poke to determine the IFACs being displayed on the MCC page.

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Remote terminal (RT) number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:IFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
ABT:IFAC
STP:IFAC
```

Output Message(s):

```
RMV:IFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)

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RMV:IOP

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified input/output processor (IOP) and any associated peripheral controllers (PCs) be removed from service.

2. FORMAT

```
RMV:IOP=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:IOP output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
RST:IOP
```

Output Message(s):

```
DGN:IOP
RMV:IOP
RST:IOP
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)

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RMV:ISLUCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated services line unit common controller (ISLUCC) be removed from service.

WARNING: An unconditional removal of an ISLUCC while mate side is out of service will result in a duplex failure of the ISLUCC.

2. FORMAT

```
RMV:ISLUCC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:ISLUCC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:ISLUCC`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

Copyright ©2007 Lucent Technologies

RMV:ISLUCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated services line unit common data (ISLUCD) be removed from service either conditionally or unconditionally.

WARNING: An unconditional warning of an ISLUCD while mate side is out of service will result in a duplex failure of an ISLUCD.

2. FORMAT

```
RMV:ISLUCD=a-b-c[,CAMPON=d][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:ISLUCD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:ISLUCD`

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Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

Copyright ©2007 Lucent Technologies

RMV:ISLUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit high level service circuit (ISLUHLSC) be removed from service.

2. FORMAT

```
RMV:ISLUHLSC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Executes the removal unconditionally. Any transient calls in progress on this circuit will be terminated.
a	= Switching module (SM) number.
b	= ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message is valid but the request conflicts with the current status.
PF	= Printout follows. Followed by the RMV:ISLUHLSC output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ISLUHLSC

Input Appendix(es):

APP:RANGES

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MCC Display Page(s):

170x (ISLU NETWORK)
171x (ISLU-Z)

Copyright ©2007 Lucent Technologies

RMV:ISLULBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line board (ISLULBD) be removed from service.

2. FORMAT

```
RMV:ISLULBD=a-b-c-d[,CAMPON=e][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:ISLULBD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:ISLULBD`

Input Appendix(es):

Copyright ©2007 Lucent Technologies

APP:RANGES

Copyright ©2007 Lucent Technologies

RMV:ISLULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line card (ISLULC) be removed from service.

2. FORMAT

```
RMV:ISLULC=a-b-c-d[,CAMPON=e][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:ISLULC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:ISLULC`

Input Appendix(es):

`APP:RANGES`

Copyright ©2007 Lucent Technologies

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

Copyright ©2007 Lucent Technologies

RMV:ISLULCKT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line circuit (ISLULCKT) be removed from service.

2. FORMAT

```
RMV:ISLULCKT=a-b-c-d-e[,CAMPON=f][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:ISLULCKT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:ISLULCKT`

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Input Appendix(es):

APP:RANGES

Copyright ©2007 Lucent Technologies

RMV:ISLULG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line group (ISLULG) be removed service.

2. FORMAT

```
RMV:ISLULG=a-b-c[,CAMPON=d][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV ISLULG output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:ISLULG`

Input Appendix(es):

`APP:RANGES`

Copyright ©2007 Lucent Technologies

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

Copyright ©2007 Lucent Technologies

RMV:ISLULGC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line group controller (ISLULGC) be removed service.

2. FORMAT

```
RMV:ISLULGC=a-b-c[,CAMPON=d][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Executes removal unconditionally.
a	= Switching module (SM) number.
b	= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:ISLULGC output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ISLULGC

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

Copyright ©2007 Lucent Technologies

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

Copyright ©2007 Lucent Technologies

RMV:ISLUMAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit metallic access network (ISLUMAN) be removed from service.

2. FORMAT

```
RMV:ISLUMAN=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally. Any transient calls in progress on this circuit will be terminated.
a	= Switching module (SM) number.
b	= ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message is valid but the request conflicts with the current status.
PF	= Printout follows. Followed by the RMV:ISLUMAN output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ISLUMAN

Input Appendix(es):

APP:RANGES

Copyright ©2007 Lucent Technologies

MCC Display Page(s):

170x (ISLU NETWORK)
171x (ISLU-Z)

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RMV:ISLUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated services line unit peripheral interface data bus (ISLUPIDB) pair be removed from service. The removal can be done conditionally or unconditionally. If the removal is conditional, it camps on any traffic on the peripheral interface data bus (PIDB) pair. If the removal is unconditional, it preempts the current user.

WARNING: Stable calls will be affected if the UCL option is used.

2. FORMAT

```
RMV:ISLUPIDB=a-b-c[,CAMP=d][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Peripheral interface data bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Maximum number of minutes of campon time allowed. If CAMP is not specified, camp on defaults to 6 minutes. Maximum time allowed is 20 minutes. This option is valid only on conditional requests.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the RMV:ISLUPIDB output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
RST:ISLUPIDB
```

Output Message(s):

```
RMV:ISLUPIDB
RST:ISLUPIDB
```

Input Appendix(es):

```
APP:RANGES
```

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RMV:ISLURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit ringing generator (ISLURG) be removed from service.

2. FORMAT

```
RMV:ISLURG=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally. Any transient calls in progress using this circuit will be terminated.
a	= Switching module (SM) number.
b	= ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= ISLU service group of RG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message is valid but the request conflicts with the current status.
PF	= Printout follows. Followed by the RMV:ISLURG output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ISLURG

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

Copyright ©2007 Lucent Technologies

170x (ISLU NETWORK)
171x (ISLU-Z)

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RMV:ISMNAIL

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Removes an inter-SM (switching module) nailup (ISMNAIL), which is used to support packet transport between two SMs.

WARNING: Use of the unconditional option can be service affecting, that is, stable packet traffic can be disrupted.

2. FORMAT

```
RMV:ISMNAIL,DLT=a-b,MATEDLT=c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Option to remove ISMNAIL unconditionally, regardless of the effect upon packet transport. The default is to allow the ISMNAIL removal, only if there is an alternate nailup between the same pair of SMs to accept active packet calls.

`a` = SM number (may be the SM associated with either end of the ISMNAIL).

`b` = Data link terminal (DLT) number associated with the SM. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Mate SM number (the other SM associated with the ISMNAIL).

`d` = DLT number associated with the mate SM. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM ## NOT IN THE ISM NETWORK` = The request has been denied. Either the source or the mate SM or both have no ISMNAILs associated with it.
- `SAME SM AND MATESM SPECIFIED` = The source and mate SM numbers are the same. This is an invalid condition.

`PF` = Printout follows. The request has been accepted. Followed by the RMV:ISMNAIL-SD output message.

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5. REFERENCES

Output Message(s):

RMV:ISMNAIL-SD

Input Appendix(es):

APP:RANGES

RMV:ISTF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated services test function (ISTF) unit be removed from service.

WARNING: If the RMV input message is used with the 'UCL' option, the current customers will be preempted.

2. FORMAT

```
RMV:ISTF=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes the removal unconditionally. This will preempt users in the process of making a call.

`a` = Switching module (SM) number.

`b` = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status.
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the RMV:ISTF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

`RST:ISTF`

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Output Message(s):

```
RMV:ISTF
```

Input Appendix(es):

```
APP:RANGES
```

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RMV:IWGFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an inter-working gateway facility (IWGFAC) be removed from service.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:IWGFAC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:IWGFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IWGFAC
STP:IWGFAC
RST:IWGFAC
```

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Output Message(s):

```
RMV:IWGFAC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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RMV:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an inter-working gateway link interface (IWGLI) be removed from service.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:IWGLI=a-b-c-d[,CAMPON=e]~[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Inter-Working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Camp-on time in minutes (0-20). The maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:IWGLI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:IWGLI
STP:IWGLI
RST:IWGLI
```

Output Message(s):

```
RMV:IWGLI
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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RMV:IWUFAC

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an inter-working unit facility (IWUFAC) be removed from service.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:IWUFAC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:IWUFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IWUFAC
STP:IWUFAC
RST:IWUFAC
```

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Output Message(s):

```
RMV:IWUFAC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1340,y (IWU)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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RMV:LDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a local digital services function (LDSF) circuit be removed from service.

2. FORMAT

```
RMV:LDSF=a-b [,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Executes the removal unconditionally. This will preempt users in the process of making a call
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the RMV:LDSF output message.
RL	= Retry later.

5. REFERENCES

Input Message(s):

RST:LDSF

Output Message(s):

RMV:LDSF

Input Appendix(es):

APP:RANGES

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RMV:LDSU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a local digital services unit- model 2 (LDSU2) board be removed from service.

2. FORMAT

```
RMV:LDSU=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Executes the removal unconditionally. This will preempt users in the process of making a call.
a	= Switching module (SM) number.
b	= LDSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the RMV:LDSU output message.
RL	= Retry later.

5. REFERENCES

Input Message(s):

RST:LDSU

Output Message(s):

RMV:LDSU

Input Appendix(es):

APP:RANGES

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RMV:LDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a local digital services unit common (LDSUCOM) board be removed from service.

The preempt will be executed only if the office out-of-service limit is not exceeded by this remove request. The office out-of-service limit for LDSUCOMs is 50% of the totally equipped LDSUCOMs.

2. FORMAT

```
RMV:LDSUCOM=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes the removal of the LDSUCOM board unconditionally unless removing it will result in a loss of call processing.

`a` = Switching module number.

`b` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:LDSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:LDSUCOM`

Input Appendix(es):

`APP:RANGES`

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RMV:LINE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a line be removed from service by the addition of a specified out-of-service (OOS) status.

If the line is in service at the time of the request, the OOS status will be added and it will be restricted accordingly. If the line is already OOS, the OOS status will be added to the line in its proper place in the hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on a line. Refer to the APP:PORT-STATUS appendix for a more detailed explanation of statuses that apply to lines. If the line is traffic busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested or a camp-on time limit of 0 is specified. If a camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message, if desired. If removed unconditionally, the line is preempted and all stable calls in progress on the line are torn down. An OOS condition on a line may be deleted using the RST:LINE input message.

2. FORMAT

```
[1]    RMV:LINE,{DN=a|PKTDN=a}[-u][,CH=b][,CAMPON=c|,UCL][:w,x,y[,z]];

[2]    RMV:LINE,j[1][,CH=b][,CAMPON=c|,UCL][:w,x,y[,z]];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`UCL` = Remove the line(s) unconditionally. This action will disconnect stable calls.

`a` = The directory number of the line.

`b` = Channel identifier [D (default), B1, or B2]. Used only for digital subscriber lines (DSLs).

If this option is not specified or if the D-channel is specified, the D-channel and all on-demand service B-channels will be removed from service, but permanent packet B-channels will not be removed. If a B-channel is specified, only that B-channel will be removed from service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be removed from service even if only the D-channel or a B-channel is specified in the input request.

A modem pool member consists of an analog line and a DSL. They are identified by the same multi-line hunt group member number (MLHG). For Format 4, if the channel is not specified and the MLHG specified is a modem pool group, by default, the analog side is selected for removal. To remove DSL side of the member the channel should be set explicitly to D. Whenever the DSL (multi-point DSL) is removed the corresponding analog line(s) of the modem pool member will also be removed from service with "OOS MTCE FE MPOOS AUTO" status.

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`c` = Camp-on time limit in minutes (0-1438). A camp-on time limit of 0 indicates that no camp-on will be performed if the line is traffic busy.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Not required if the switch board equals ALL.

`m` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Not required if the switch board equals ALL.

`n` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Member number of the multi-line hunt group (MLHG) or line time slot bridging (LTSB) line.

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For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be removed. For LTSB a member number of 1 will remove the lead line and a member number of 2 will remove the associate line. If no member number is specified, for 1-DN LTSB, the lead line and the associate line will both be removed. If no member number is specified, for 2-DN LTSB, the line associated with the DN entered will be removed.

`v` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS,DSBLD).

`w` = Basic state. Valid value(s):

`OOS` = Out-of-service (default).

`x` = Qualifier (choose one or omit). Valid value(s):

`MKBUSY` = Make busy. If variable '`w`' is not specified, it will be defaulted to OOS.

`MTCE` = Maintenance (default). If variable '`w`' is not specified, it will be defaulted to OOS.

`PPSRV` = Pre-post service. If variable '`w`' is not specified, it will be defaulted to OOS.

`TMT` = Traffic management. If variable '`w`' is not specified, it will be defaulted to OOS.

`y` = Operational restrictions (choose one or omit). Valid value(s):

`DSBLD` = Disabled. If variable `x`' is not specified, it will be defaulted to MTCE (default).

`PLGUP` = Plug-up (no effect). If variable `x`' is not specified, it will be defaulted to MTCE.

`PX` = Power cross. If variable `x`' is not specified, it will be defaulted to MTCE.

`RAP` = Recorded announcement port. If variable `x`' is not specified, it will be defaulted to MTCE.

If the entire port status is omitted the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

`z` = Supplementary information (choose one or omit). This field is used to record the reason for removal. Valid value(s):

`AML` = Automatic maintenance limit.

`AUDIT` = Audit detected problem.

`CAMA` = Central automatic message accounting.

`CAROT` = Centralized automatic reporting on trunks.

`CDI` = Control and data interface.

`CKT` = Circuit.

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CTTU = Central trunk testing unit.
DFI = Digital facility interface.
FORPOT = Foreign potential.
GRD = Ground fault.
GRID = Line unit grid.
IAA = Ineffective attempt analysis.
ISLU = Integrated services line unit.
MPP = Modem-pool problem.
PCTF = Per-call test failure.
PPM = Periodic pulse metering.
PSU = Packet switch unit.
REX = Routine exercise.
RO = Routine other.
ROTF = Operational trouble.
SCC = Switching control center.
SPARED = Line involved in ISLU sparing configuration.
TEST = In test mode.
TICOM = Treated interface common circuit.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble.
TRKBD = Trunk board.
TRKCT = Trunk circuit.

a[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[1] = Equipment numbers: Valid value(s):

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AIUEN=d-d[1]-e[1]-f[1]
ILEN=d-t-h-v
INEN=d-g[1]-h-s
LCEN=d-e-f-g
LCKEN=d-e-a[1]-b[1]-c[1]
LEN=d-i-j-k
MLHG=n-o
SLEN=d-q-r-s
VANA=d-h[1]
VBRI=d-i[1]

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the RMV:LINE output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:ST-LI
RMV:TRK
RST:LINE
STP:CAMPON

Output Message(s):

REPT:CAMPON
RMV:LINE

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:PORT-STATUS

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RMV:LN

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that the specified link node (LN) be removed from service. The removal is conditional upon having the link facility inactive. To override this condition, refer to the FRMV:LN input request.

If the LN major state is active (ACT) or initialization (INIT), an attempt is made to remove the LN from service. If successful, the LN major state is changed to out-of-service (OOS) and the node itself is placed in the quarantine state. Success depends on the signaling link state being inactive and the associated signaling link being not-in-service.

If the LN major state is other than ACT or INIT, no system action is performed.

When a node is manually removed, it becomes the responsibility of the user to restore the node to service. This is true even if the node had earlier been placed in the OOS state due to automatic system action.

2. FORMAT

```
RMV:LNa=b;
```

3. EXPLANATION OF MESSAGE

`a` = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Node position in the RN group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
CHG:SLK
DGN:LN
FRMV:LN
INIT:LN
RST:LN
```

Output Message(s):

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```
CHG:SLK
DGN:LN
FRMV:LN
INIT:LN
RMV:LN
RST:LN
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI RING STATUS)
1520 (RING NODE STATUS)
1521 (SIGNALING LINK SUMMARY)
1522 (SIGNALING LINK)

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RMV:LUCHAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit channel (LUCHAN) be removed from service.

2. FORMAT

```
RMV:LUCHAN=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally execute the removal.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e	= Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:LUCHAN output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:LUCHAN

Input Appendix(es):

APP:RANGES

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RMV:LUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit channel board (LUCHBD) be removed from service.

2. FORMAT

```
RMV:LUCHBD=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally execute the removal.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:LUCHBD output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:LUCHBD

Input Appendix(es):

APP:RANGES

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RMV:LUCOMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit common control (LUCOMC) be removed from service.

2. FORMAT

```
RMV:LUCOMC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally execute the removal.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:LUCOMC output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:LUCOMC

Input Appendix(es):

APP:RANGES

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RMV:LUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit high service circuit (LUHLSC) be removed from service.

2. FORMAT

```
RMV:LUHLSC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally execute the removal.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:LUHLSC output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:LUHLSC

Input Appendix(es):

APP:RANGES

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RMV:MA

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic access (MA) board be removed from service.

2. FORMAT

```
RMV:MA=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally execute the removal.
a	= Switching module number.
b	= Metallic service unit number.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:MA output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:MA

Input Appendix(es):

APP:RANGES

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RMV:MAB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the metallic access bus (MAB) be removed from service.

2. FORMAT

```
RMV:MAB=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute removal unconditionally.
a	= Switching module number.
b	= Unit number.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Output message will follow with completion status.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:MAB

Input Appendix(es):

APP:RANGES

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RMV:MCTSI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a module controller/time-slot interchange unit (MCTSI) be removed from service.

2. FORMAT

```
RMV:MCTSI=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally. This option can only be used on the standby module controller unit.
a	= Switching module number.
b	= Module controller unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:MCTSI output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:MCTSI

Input Appendix(es):

APP:RANGES

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RMV:MD

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Removes a common channel signaling (CCS) intra-global switching module (GSM) message delivery (MD) path internal to the GSM.

The CCS intra-GSM MD path is removed by deactivating the associated protocol handler (PH) channel. Note that there is no nailed-up time slot associated with an intra-GSM MD path. On completion of the request, CCS message delivery of user part messages from the GSM processor is not possible.

Note: This input message is applicable only for PSU platform CCS7.

WARNING: The use of this input message will stop all CCS signaling on the PSU platform in the specified GSM. Use with extreme caution!

2. FORMAT

```
RMV:MD,SM=a,UCL;
```

3. EXPLANATION OF MESSAGE

`UCL` = The unconditional mode is required when removing an intra-GSM MD path.

`a` = Global switching module (GSM) number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID MD PATH` = The SM specified is equipped, but not a GSM.
- `NO GLOBAL SM` = No GSMs are provisioned in the office.
- `SM NOT EQUIPPED` = SM specified in the input message does not exist in the office.

`PF` = Printout follows. Followed by the RMV:MD output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.

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5. REFERENCES

Output Message(s):

RMV:MD

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1530 (GLOBAL SM MESSAGE DELIVERY STATUS)

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RMV:MELNK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an MCTSI-based ethernet link (MELNK) be removed from service.

The UCL qualifier is required when removing the real time call detail (RTCD) MELNK if the RTCD office option is on since this action would isolate the global billing switching module (SM) from the billing collector system. For other service types, the UCL option is required to remove the last MELNK.

2. FORMAT

```
RMV:MELNK=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove unconditionally.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MCTSI-based ethernet pipe (MEPIPE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = MELNK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO SUCH SM` = Input command specified an SM that does not exist.
- `SM UNEQ` = Input command specified an SM that is unequipped.
- `UNIT UNEQ` = Input command specified an SM with no equipped MELNK.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. May also include:
- `SM ISOLATED` = Cannot communicate with requested SM.

`PF` = Printout follows. Followed by the RMV:MELNK output message.

5. REFERENCES

Output Message(s):

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```
RMV:MELNK
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):
1204 MELNK STATUS

RMV:MHD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified moving head disk (MHD) be removed from service.

2. FORMAT

```
RMV:MHD=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:MHD output message.

`RL` = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
DGN:DFC
DGN:MHD
RMV:DFC
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS
```

Output Message(s):

```
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)
123 (DISK FILE SYSTEM ACCESS)

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RMV:MMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified module message processor (MMP) be removed from service.

2. FORMAT

```
RMV:MMP=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now.

`PF` = Printout follows. Followed by the RMV:MMP output message.

5. REFERENCES

Output Message(s):

`RMV:MMP`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-250 *System Recovery Procedures*

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RMV:MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a message switch control unit (MSCU) be removed from service.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution.

2. FORMAT

```
RMV:MSCU=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Perform any CMP switches unconditionally.

`a` = Message switch side number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the RMV:MSCU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ-CM-SM
RST:MSCU
SW:CMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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Output Message(s):

```
RMV:MSCU
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1240, 1250 (MSGS 0/1 SUMMARY)

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RMV:MSGS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a message switch (MSGS) be removed from service.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution!

2. FORMAT

```
RMV:MSGS=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Perform any CMP switches unconditionally.

`a` = Message switch side number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the RMV:MSGS output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ-CM-SM
RST:MSGS
SW:CMP
```

Output Message(s):

```
RMV:MSGS
```

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Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1240, 1250 (MSGS 0/1 SUMMARY)

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RMV:MSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic service unit common (MSUCOM) board be removed from service.

2. FORMAT

```
RMV:MSUCOM=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = Metallic service unit number.

`c` = Service group number (0 or 1).

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:MSUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:MSUCOM`

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RMV:MT

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified magnetic tape (MT) device be removed from service.

2. FORMAT

```
RMV:MT=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:MT output message.

5. REFERENCES

Input Message(s):

```
RMV:MTC
RST:MT
RST:MTC
```

Output Message(s):

```
RMV:MT
RMV:MTC
RST:MT
RST:MTC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:MTB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic access test bus (MTB) be removed from service.

2. FORMAT

```
RMV:MTB=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal.

`a` = Switching module number.

`b` = Metallic service unit number.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Metallic access test bus. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:MTB output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:MTB`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1135/1145 (MSU MA STATUS)

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RMV:MTC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified magnetic tape controller (MTC) and any associated magnetic tape drives be removed from service.

2. FORMAT

```
RMV:MTC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:MTC output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:MTC
RMV:IOP
RST:IOP
RST:MTC
```

Output Message(s):

```
DGN:IOP
DGN:MTC
RMV:IOP
RMV:MTC
RST:IOP
RST:MTC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

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235-105-220 *Corrective Maintenance*

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RMV:MTIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the metallic test interconnect bus (MTIB) be removed from service.

2. FORMAT

```
RMV:MTIB=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Output messages will follow with the completion status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:MTIB`

Input Appendix(es):

`APP:RANGES`

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RMV:MTIBAX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the metallic test interconnect bus access (MTIBAX) be removed from service.

2. FORMAT

```
RMV:MTIBAX=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute removal unconditionally.
a	= Switching module number.
b	= Unit number.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Output messages will follow with the completion status.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:MTIBAX

Input Appendix(es):

APP:RANGES

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RMV:MTTY

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified maintenance teletypewriter (MTTY) be removed from service.

2. FORMAT

```
RMV:MTTY=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:MTTY output message.

5. REFERENCES

Input Message(s):

```
DGN:MTTYC
RST:MTTY
RST:MTTYC
```

Output Message(s):

```
DGN:MTTYC
RMV:MTTY
RMV:MTTYC
RST:MTTY
RST:MTTYC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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MCC Display Page(s):

(COMMON PROCESSOR)

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RMV:MTTYC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified maintenance teletypewriter controller (MTTYC) and all associated maintenance teletypewriters, receive-only printers, and switching control center (SCC) data link devices be removed from service.

2. FORMAT

```
RMV:MTTYC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:MTTYC output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RST:IOP
RST:MTTYC
```

Output Message(s):

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTYC
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)

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RMV:NCOSC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a network clock oscillator (NCOSC) be removed from service.

2. FORMAT

```
RMV:NCOSC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Unit side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The request was received at the destination and initiated.

`NG` = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

`PF` = Printout follows. Followed by the RMV:NCOSC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RST:NCOSC
```

Output Message(s):

```
REPT:NC-NWP
RMV:NCOSC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1210(NETWORK CLOCK)

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1211(NETWORK CLOCK REFERENCES)

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RMV:NCREF

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a network clock reference (NCREF) be removed from service. External references will be removed from service on both network clock (NC) sides.

2. FORMAT

```
RMV:NCREF,{XC=a | b[,TYPE=c][,UCL]};
```

3. EXPLANATION OF MESSAGE

XC = Cross-couple reference. This is only legal for NC1 and NC2.

a = Network clock side.

b = Network clock reference (NCREF). Valid value(s):

NC1	NC2 or NC3
PRIM Primary reference. SEC Secondary reference.	REFn Reference number, n=1-8.

c = Reference Type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. The values are:

- 10M = 10 MHz analog clock reference.
- 2M = 2.048 MHz analog clock reference.
- CC = 64K Composite clock reference.
- DGTL = Digital clock reference.

UCL = Applies only to REF1-REF8. Must be used to remove the last active reference.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. The request has been received. Followed by the RMV:NCREF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
RST:NCREF
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Output Message(s):

```
RMV:NCREF
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)

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RMV:NLI-A

Software Release: 5E15 - 5E16(1)
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a removal of a specific network link interface (NLI) from service.

Note: Automatic quad-link packet switch (QLPS) network switches may occur if the primary NLI is reconfigured/QLPSs are equipped.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks are made to see whether removing the NLI is service affecting. If the removal affects service, the request is denied.

If the UCL option is used, the NLI is removed whether it affects calls or not.

2. FORMAT

```
RMV:NLI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the NLI unconditionally. This option should only be used when the NLI MUST BE removed from service and a conditional removal is denied.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ONTC side number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the RMV:NLI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
OP:DMQ-CM-SM
RST:NLI
```

Output Message(s):

```
OP:DMQ-CM
OP:DMQ-SM
RMV:NLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)

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RMV:NLI-B

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a removal of a specific network link interface (NLI) from service.

Automatic quad-link packet switch (QLPS) network switches may occur if the primary NLI is reconfigured/QLPSs are equipped.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks are made to see whether removing the NLI is service affecting. If the removal affects service, the request is denied. If the UCL option is used, the NLI is removed whether it affects calls or not.

2. FORMAT

```
RMV:NLI=a-b-c[,UCL|,REMAP];
```

3. EXPLANATION OF MESSAGE

`REMAP` = Removes the NLI with the remap of timeslots option. This option attempts to preserve inter-SM connections that were using the NLI being removed, by moving those connections to available timeslots on other NLIs. This option is used during the conversion or degrowth procedures for the removing of NLI's in an attempt to save calls. Cannot be used with the UCL option.

`UCL` = Remove the NLI unconditionally. This option should only be used when the NLI must be removed from service and a conditional removal is denied. Cannot be used with the REMAP option.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ONTC side number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

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`PF` = Printout follows. Followed by the RMV:NLI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:DMQ-CM-SM
RST:NLI
```

Output Message(s):

```
OP:DMQ-CM
OP:DMQ-SM
RMV:NLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):
1190 MCTSI
1200 DLI/NLI

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RMV:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an optical carrier - level 3 (OC3) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Removal of an active OC3 when the mate is standby will generate transient errors on the facilities.

2. FORMAT

```
RMV:OC3=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. If the specified OC3 is the active OC3, the parameter is required.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:OC3 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
ABT:OC3
RST:OC3
STP:OC3
```

Output Message(s):

```
RMV:OC3
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3 STATUS

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RMV:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an optical carrier - level 3 concatenated (OC3C) facility be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Removal of an active OC3C when the mate is standby will generate transient errors on the facilities.

2. FORMAT

```
RMV:OC3C=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. If the specified OC3C is the active OC3C, the parameter is required.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:OC3C output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:OC3C
RST:OC3C
STP:OC3C
```

Output Message(s):

```
RMV:OC3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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RMV:OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an optical facility interface (OFI) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Removal of a selected OFI when the mate is active will generate transient error on the facility.

2. FORMAT

```
RMV:OFI=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally. If the specified OFI is the selected OFI, this parameter is required.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:OFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
ABT:OFI
RST:OFI
STP:OFI
```

Output Message(s):

```
RMV:OFI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1490 OIU STATUS

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RMV:ONTC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an office network and timing complex (ONTC) be removed from service.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks will be made to see if removing the ONTC side will be service affecting. If the remove will affect service, the request will be denied.

If the UCL option is used, the ONTC will be removed whether it affects calls or not. It will not, however, allow both sides to be removed (duplex failure).

2. FORMAT

```
RMV:ONTC=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the ONTC unconditionally. Refer to the Purpose section of this message for more details.

`a` = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
RST:ONTC
STP:ONTC
```

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Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Output Message(s):

```
RMV:ONTC
```

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RMV:ONTCCOM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an office network and timing complex common unit (ONTCCOM) be removed from service and placed in the 'out of service, manual removed' (OOS MAN RMV) state. The dual link interfaces (DLIs) that are currently active below the requested ONTCCOM will be placed in an OOS family of equipment (FE) state. The DLIs currently OOS will stay in the same state.

The ONTCCOM is made up of the following entities:

- Message interface (MI).
- Network clock (NC).
- Time multiplexed switch (TMS) excluding the network control and timing links (NCTLNKs).
- Link interface (LI), which exists only in the communication module model 1 (CM1) hardware.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If UCL option is not used, checks will be made to see whether removing the ONTC side will be service affecting. If the remove will affect service, the request would be denied.

If the UCL option is used, the ONTC will be removed whether it affects calls or not. It will not, however, allow both sides to be removed (duplex failure).

2. FORMAT

```
RMV:ONTCCOM=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the ONTCCOM unconditionally. This option should only be used when the DLI must be removed from service and a conditional remove is denied.

`a` = ONTC common side.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

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`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
OP:DMQ
RST:ONTCCOM
```

Output Message(s):

```
OP:DMQ-CM
OP:DMQ-SM
RMV:ONTCCOM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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RMV:OSCXC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the network clock 2 oscillator cross-couple (OSCXC) be removed from service.

Note: The OSCXC provides the signal from a network clock oscillator (NCOSC) to the opposite network clock side. Therefore, the state of the OSCXC is dependent on the state of the NCOSC. This command is not applicable in Communication Module 3 (CM3) office.

2. FORMAT

```
RMV:OSCXC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Network clock side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

`OK` = Good. The request was accepted and completed.

`PF` = Printout follows. Followed by the RMV:OSCXC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RST:OSCXC`

Output Message(s):

`RMV:OSCXC`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

(NETWORK CLOCK)

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RMV:OSPSPORT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the removal of an operator services position system (OSPS) port (OSPSPORT) from service by placing it in the specified out-of-service (OOS) status. If no status is given, a default status (identified below) is assumed. An OSPSPORT can be identified by its type [such as autoquote establishment (AQEST) or autoquote mate analog (AQM)] and its associated external identifier parameters or by its equipment number (LCEN, LCKEN, or TEN).

If the OSPSPORT is already OOS, the OOS status will be added to the OSPSPORT in its proper place in the hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on an OSPSPORT. Refer to APP:PORT-STATUS in the Appendix section of the Output Messages manual for a more detailed explanation of statuses that apply to OSPSPORTs. If an AQEST OSPSPORT or AQM OSPSPORT is busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested or a camp-on time limit of zero is specified. If a camp-on is started, a report REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message, if desired. If removed unconditionally, the OSPSPORT is preempted and any communication in progress is torn down. When an AQM is removed from service, its associated autoquote (AQ) data link is also removed from service. Conditional removal of an AQM is not allowed if fewer than 50% of the equipped AQ data links would remain in service after the removal. If an OSPSPORT other than an AQEST or AQM is busy when the request is made, the request is denied. The corresponding RMV:OSPSPORT output message has a completion report of PORT BUSY. An OOS condition on an OSPSPORT may be deleted using the RST:OSPSPORT input message.

2. FORMAT

```
RMV:OSPSPORT,a[,CH=b][,CAMPON=v|,UCL][[:d][,e][,f][,g]];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the unit unconditionally. The OSPSPORT should be preempted. All stable communication will be disconnected (traffic release).

`a` = Valid value(s):

AQEST=h	OPT=k-l
AQM=i-j	TEN=m-r-s-t-u
BST=k-l	XDPF=q
LCEN=m-n-o-p	XDPO=k
LCKEN=m-n-w-x-y	

`b` = Channel identifier [D (default), B1, or B2]. Used only for digital subscriber line (DSL) OSPSPORTs. Ignored if the item identified is not a DSL.

If this option is not specified or if the D-channel is specified, the D-channel and all on-demand service B-channels will be removed from service, but permanent packet B-channels will not be removed. If a B-channel is specified, only that B-channel will be removed from service.

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The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be removed from service even if only the D-channel or a B-channel is specified in the input request.

Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS,DSBLD).

`d` = Basic state. Valid value(s):

- `OOS` = Out of service (default).

`e` = Qualifier (choose one or omit). Valid value(s):

- `MKBUSY` = Make busy.
- `MTCE` = Maintenance (default).
- `PPSRV` = Pre-post service.
- `TMT` = Traffic management.

`f` = Operational restrictions (choose one or omit). Valid value(s):

- `DSBLD` = Disabled (default).
- `PLGUP` = Plug-up (no effect).
- `PX` = Power cross.
- `RAP` = Recorded announcement port.

NOTE: If the entire port status is omitted the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

`g` = Supplementary information (choose one or omit). Records the reason for removal. Valid value(s):

- `AML` = Automatic maintenance limit.
- `AUDIT` = Audit detected problem.
- `CAROT` = Centralized automatic reporting on trunks.
- `CDI` = Control and data interface.
- `CKT` = Circuit.
- `CTTU` = Central trunk testing unit.
- `DFI` = Digital facility interface.
- `FORPOT` = Foreign potential.
- `GRD` = Ground fault.
- `IAA` = Ineffective attempt analysis.
- `ISLU` = Integrated services line unit.
- `PCTF` = Per-call test failure.
- `PPM` = Periodic pulse metering.
- `PSU` = Packet switch unit.
- `REX` = Routine exercise.
- `RO` = Routine other.
- `ROTF` = Operational trouble.
- `SCC` = Switching Control Center.
- `SPARED` = Line involved in ISLU sparing configuration.

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TICOM = Treated interface common circuit.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble.
TRKBD = Trunk board.
TRKCT = Trunk circuit.

h = Telephone number.

i = Data link (group) number.

j = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Switching module (SM) number.

n = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Time limit specified in minutes (0-1438). A camp-on time limit of 0 indicates that no camp-on will be performed if the line is traffic busy.

w = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`y` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and is followed by the RMV:OSPSPORT output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:STATUS
RST:OSPSPORT
STP:CAMPON
```

Output Message(s):

```
REPT:CAMPON
RMV:OSPSPORT
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:PORT-STATUS
```

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RMV:PAG

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Removes call processing from a network interface on a packet access gateway (PAG).

2. FORMAT

```
RMV:PAG=a-b,~NETINTF=c~[,CAMPON=d]~[,UCL];
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PAG component number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Time for campon. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid but the request conflicts with the current status.

`PF` = Printout follows. Followed by the RMV:PAG output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RST:PAG
STP:PAG
```

Output Message(s):

```
RMV:PAG
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1342,y PAG

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RMV:PCTDX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a peripheral control and timing data exchanger (PCTDX) be removed from service.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:PCTDX=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:PCTDX output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:PCTDX
STP:PCTDX
RST:PCTDX
```

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Output Message(s):

`RMV:PCTDX`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1330,y (PDXU)

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RMV:PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a PCT (Peripheral Control and Timing) line and trunk unit link be removed from service.

WARNING: An unconditional removal of the active PLTU link while the mate side is out-of-service (OOS), will result in a PLTU duplex failure.

2. FORMAT

```
RMV:PLTLK=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`UCL` = Remove unconditionally.

4. SYSTEM RESPONSE

`NG` = No good. Valid values are:
- REASON FOR NG = The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A RMV PLTLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

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```
ABT:PLTLK
DGN:PLTLK
STP:PLTLK
RMV:PLTLK
SW:PLTLK
```

Output Message(s):

```
RMV:PLTLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1430 (PLTU Status page)

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RMV:PMU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a precision measurement unit (PMU) be removed from service.

2. FORMAT

```
RMV:PMU=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:PMU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:PMU`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

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RMV:PPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified pump peripheral controller (PPC) be removed from service.

2. FORMAT

```
RMV:PPC=a;
```

3. EXPLANATION OF MESSAGE

a	= PPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The message was invalid.
PF	= Printout follows. Followed by the RMV:PPC output message.

5. REFERENCES

Output Message(s):

RMV:PPC

Input Appendix(es):

APP:RANGES

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RMV:PPPLK

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an optical interface unit (OIU) point to point protocol link (PPPLK) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Unconditional removal of a link will result in a loss of calls on the OIU protection group (PG).

2. FORMAT

```
RMV:PPPLK=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:PPPLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
ABT:PPPLK
RST:PPPLK
STP:PPPLK
```

Output Message(s):

```
RMV:PPPLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1494 OIU PKT STATUS

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RMV:PROTO

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the protocol circuit (PROTO) be removed from service.

2. FORMAT

```
RMV:PROTO=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute removal unconditionally.
a	= Switching module number.
b	= Unit number.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Output message will follow with completion status.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:PROTO

Input Appendix(es):

APP:RANGES

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RMV:PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) common controller (COM) be removed from service.

WARNING: An unconditional removal of the active PSUCOM while the mate side is out-of-service (OOS), will result in a PSUCOM duplex failure.

2. FORMAT

```
RMV:PSUCOM=a-b-c[-d][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = Switching module (SM) number.

`b` = PSU number (0).

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:PSU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:PSU`

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK

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RMV:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) common controller (COM) be removed from service.

WARNING: An unconditional removal of the active PSUCOM while the mate side is out-of-service (OOS), will result in a PSUCOM duplex failure.

2. FORMAT

```
RMV:PSUCOM=a-b-c[-d][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = Switching module (SM) number.

`b` = PSU number.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:PSU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:PSU`

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)

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RMV:PSUPH-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) common controller (COM) or protocol handler (PH) be removed from service.

WARNING: An unconditional removal of the active PSUCOM while the mate side is out-of-service (OOS), will result in a PSUCOM duplex failure.

An unconditional removal of an active PSUPH while no spare PSUPH is available will result in a loss of service to a channel group. An unconditional remove of an active PSUPH (except for QPHs) with a spare available will result in a hard switch of the PSUPHs resulting in a loss of calls.

Attempts to unconditionally remove a PH serving an MD or MD-ST7 channel group will be denied if no spare PH of the same hardware type exists on the shelf.

Attempts to conditionally or unconditionally remove an ACT PH supporting a QPH channel group will be allowed if a STBY PH of the same hardware type is available on the PSU shelf. If there is not a STBY PH of the same hardware type on the PSU shelf, conditional and unconditional requests to remove a QPH will be allowed if one of the following conditions are true:

- A conditional remove of a QPH will be allowed if all QPIPE(s) provisioned on that QPH channel group have been manually deactivated,
- An unconditional remove of a QPH will be allowed if the system determines that removing this QPH channel group will not cause CCS message transport to any NGSM to be severed (this is always the case if all resident QPIPES are manually deactivated).

2. FORMAT

```
RMV:PSU{a}=b-c-d[-e][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = Circuit name. Valid value(s):

- `COM` = Common controller.
- `PH` = Protocol handler.

`b` = Switching module (SM) number.

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`c` = PSU number (0).

`d` = This variable has more than one definition.

If '`a`' =	'`d`' **=**
COM	Service group number.
PH	Shelf number.

Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:PSU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:PSU`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

118x (PSU SHELF)
1186 (PSU NETWORK)

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RMV:PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) protocol handler (PH) be removed from service.

WARNING: An unconditional removal of an active PSUPH while no spare PSUPH is available will result in a loss of service to a channel group. An unconditional remove of an active PSUPH (except for QPHs) with a spare available will result in a hard switch of the PSUPHs resulting in a loss of calls.

Attempts to unconditionally remove a PH serving an MD or MD-ST7 channel group will be denied if no spare PH of the same hardware type exists on the shelf.

Attempts to conditionally or unconditionally remove an ACT PH supporting a QPH channel group will be allowed if a STBY PH of the same hardware type is available on the PSU shelf. If there is not a STBY PH of the same hardware type on the PSU shelf, conditional and unconditional requests to remove a QPH will be allowed if one of the following conditions are true:

- A conditional remove of a QPH will be allowed if all QPIPE(s) provisioned on that QPH channel group have been manually deactivated,
- An unconditional remove of a QPH will be allowed if the system determines that removing this QPH channel group will not cause CCS message transport to any NGSM to be severed (this is always the case if all resident QPIPES are manually deactivated).

2. FORMAT

```
RMV:PSUPH=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = Switching module (SM) number.

`b` = PSU number.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:PSU output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:PSU

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)

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RMV:PSUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) pair be removed from service. The purpose of this input message is to free up the traffic through the PIDB for degrowth purposes. Removal of PIDB 0 relative to the PSU shelf is not allowed. Removal of the PIDB is always unconditional.

WARNING: This input message should only be used while degrowing the PSU PIDB. Use of this input message moves traffic from one PIDB to another PIDB on the same shelf. Before executing this input message, switch maintenance personnel must ensure that remaining PIDBs have sufficient resources to support remaining traffic.

2. FORMAT

```
RMV:PSUPIDB=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The RMV:PSUPIDB output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Output Message(s):

```
RMV:PSUPIDB
```

Input Appendix(es):

```
APP:RANGES
```

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RMV:QGP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Request a conditional or unconditional removal of a quad-link packet switch (QLPS) gateway processor (QGP) from service.

Note 1: As part of the QGP reconfiguration, switching of the QLPS may occur.

Unless the degrow option is specified, the removal of the last QGP will be denied.

Note 2: The DEGROW option is not a valid parameter for CM3.

2. FORMAT

```
RMV:QGP=a-b[,UCL|,DEGROW];
```

3. EXPLANATION OF MESSAGE

`DEGROW` = Remove QGP unconditionally. This option should generally be used only for degrowth procedures, because this option will allow the removal of the last QGP if all switching module (SM)-2000s would still have communication link (CLNK) connectivity. The DEGROW option is not valid for CM3.

`UCL` = Remove QGP unconditionally. This request will not be honored, however, if the number of SM-2000s that do not have QLPS connectivity increases or QLNK connectivity would decrease as a result of the remove.

`a` = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the RMV:QGP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
RST:QGP
```

Output Message(s):

```
RMV:QGP
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)
1380, 1381 (QLPS NETWORK 0/1 STATUS)

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RMV:QLPS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a conditional or unconditional removal of a quad-link packet switch (QLPS) from service.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution! Inappropriate use of this message may also reduce call processing capacity.

Note: The DEGROW option is not a valid parameter for CM3.

2. FORMAT

```
RMV:QLPS=a-b[,UCL|,DEGROW];
```

3. EXPLANATION OF MESSAGE

`DEGROW` = Perform QLPS remove truly unconditionally. Unlike the UCL option, no defensive checks are performed. Thus, this option should only be used to degrow the QLPSs; otherwise, additional switching module-2000s (SM-2000s) may lose QLPS connectivity. The DEGROW option is not valid for CM3.

`UCL` = Perform QLPS remove unconditionally. This request will not be honored, however, if the outcome will increase the number of SM-2000s that do not have any QLPS or QGP (if equipped) connectivity.

`a` = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the RMV:QLPS output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Output Message(s):

```
RMV:QLPS
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1209 (ONTC 0&1)
1380, 1381 (QLPS NETWORK 0/1 STATUS)

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RMV:QPHPIPE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a quad-link packet switch protocol handler (QPH) QPIPE be removed from service unconditionally.

WARNING: The `UCL` construct is required. SS7 services in the office may be impaired by this action.

2. FORMAT

```
RMV:QPHPIPE=a-b-c-d-e,UCL;
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = Global switching module (GSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = QPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = QLPS network number (0 or 1, or a range 0&&1 for QPH QPIPEs on both networks). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = The request has been accepted. A RMV:QPHPIPE output message will follow, specifying the results of the request.

`NG - SM UNEQUIPPED` = This response indicates that the input GSM (part of the QPH QPIPE specification) is not even an equipped SM.

`NG - NOT A GSM` = This response indicates that the input GSM (part of the QPH QPIPE specification) is not a provisioned GSM.

`RL - GSM NOT AVAILABLE` = This response indicates that the input GSM (part of the QPH QPIPE specification) is not available, because it is isolated or undergoing an initialization. Retry later.

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5. REFERENCES

Output Message(s):

```
RMV:QPHPIPE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-200-116 *5ESS Switch Signaling Gateway Common Channel Signaling*

RMV:RAF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a recorded announcement function (RAF) unit be removed from service.

WARNING: If the RMV input message is used with the 'UCL' option, the current customers will be preempted.

2. FORMAT

```
RMV:RAF=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally. This will preempt users in the process of making a call.

`a` = Switching module (SM) number.

`b` = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status.
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the RMV:RAF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

```
RST:RAF
```

Output Message(s):

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```
RMV:RAF
```

Input Appendix(es):

```
APP:RANGES
```

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RMV:RAU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM) alarm (RAU) circuit be removed from service.

2. FORMAT

```
RMV:RAU=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the RMV:RAU output message.

5. REFERENCES

Input Message(s):

```
RST:RAU
```

Output Message(s):

```
RMV:RAU
```

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RMV:RCL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote communication link (RCL) between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits be removed from service.

2. FORMAT

```
RMV:RCL=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Remove the circuit unconditionally.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Facility (FAC) number. The FAC number is the T1 facility number on a CDFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May be one of the following:

- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the RMV:RCL output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RST:RCL`

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Output Message(s):

```
RMV:RCL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:RCLK

Software Release: 5E15 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock (RCLK) circuit be removed from service. This request will also remove from service both the remote clock cross couples (RCXCs) and all the equipped references for the specified side of the RCLK.

2. FORMAT

```
RMV:RCLK=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the RMV:RCLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RST:RCLK
```

Output Message(s):

```
RMV:RCLK
RMV:RCREF
```

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```
RMV:RCXC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

(RSM RCU)

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RMV:RCOSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock oscillator (RCOSC) be removed from service. This request will also remove the remote clock oscillator cross couples (RCOXC) from service for the specified side of the RCOSC.

Note: If the oscillator is powered down, power up time is required before the restoration of the oscillator. A minimum power up time of one hour for a medium stability oscillator or 16hours for a high stability oscillator is required.

2. FORMAT

```
RMV:RCOSC=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = RCOSC side (0,1).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the RMV:RCOSC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RST:RCOSC`

Output Message(s):

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```
RMV:RCOSC
RMV:RCOXC
```

MCC Display Page(s):

(RSM RCU)

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RMV:RCOXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock oscillator cross couple (RCOXC) be removed from service.

2. FORMAT

```
RMV:RCOXC=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = RCOXC side (0,1).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the RMV:RCOXC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RCOSC
RST:RCOXC
```

Output Message(s):

```
RMV:RCOSC
RMV:RCOXC
```

MCC Display Page(s):

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(RSM RCU)

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RMV:RCREF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock reference (RCREF) be removed from service.

2. FORMAT

```
RMV:RCREF=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = Equipped reference number (1-8).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the RMV:RCREF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RST:RCREF`

Output Message(s):

`RMV:RCREF`

MCC Display Page(s):

(RSM RCU)

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RMV:RCXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock cross couple (RCXC) be removed from service.

2. FORMAT

```
RMV:RCXC=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = RCXC side.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the RMV:RCXC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RMV:RCLK`

Output Message(s):

`RMV:RCLK`
`RMV:RCXC`

MCC Display Page(s):

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(RSM RCU)

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RMV:RDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM) digital facilities interface (RDFI) circuit be removed from service.

2. FORMAT

```
RMV:RDFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Remove the circuit unconditionally. This option may affect stable calls.
a	= Switching module number.
b	= Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= RDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. Request denied because of a conflict with current status.
PF	= Printout follows. Followed by the RMV:RDFI output message.

5. REFERENCES

Input Message(s):

RST:RDFI

Output Message(s):

RMV:RDFI

Input Appendix(es):

APP:RANGES

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RMV:RLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM) remote link interface (RLI) circuit be removed from service.

2. FORMAT

```
RMV:RLI=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Remove the RLI side from service unconditionally. The system can override the out-of-service state automatically if required.
a	= Switching module number.
b	= RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. Request denied because of a conflict with current status.
PF	= Printout follows. Followed by the RMV:RLI output message.

5. REFERENCES

Input Message(s):

RST:RLI

Output Message(s):

RMV:RLI

Input Appendix(es):

APP:RANGES

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RMV:ROP

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified receive-only printer (ROP) be removed from service.

2. FORMAT

```
RMV:ROP=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:ROP output message.

5. REFERENCES

Input Message(s):

```
DGN:MTTYC
RMV:MTTYC
RST:MTTYC
RST:ROP
```

Output Message(s):

```
DGN:MTTYC
RMV:MTTYC
RMV:ROP
RST:MTTYC
RST:ROP
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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MCC Display Page(s):

(COMMON PROCESSOR)

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RMV:RPCN

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the specified ring peripheral controller node (RPCN) be removed from service. The removal is conditional upon having adequate traffic handling capacity.

If the RPCN major state is active (ACT), initialization (INIT), or standby (STBY), an attempt is made to remove the RPCN from service. If successful, the RPCN major state is changed to out-of-service (OOS) and the node itself is placed in the quarantine state. Success depends on remaining traffic handling capacity. If the RPCN major state is other than ACT, INIT, or STBY, no system action is performed. If a node is manually removed from service, it becomes the responsibility of the user to restore the node to service. This is true even if the node had earlier been placed in the OOS state due to automatic system action.

2. FORMAT

```
RMV:RPCNa=0;
```

3. EXPLANATION OF MESSAGE

`a` = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
DGN:RPCN
RST:RPCN
```

Output Message(s):

```
DGN:RPCN
RMV:RPCN
RST:RPCN
```

Input Appendix(es):

```
APP:RANGES
```

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MCC Display Page(s):

118 (CNI FREAME AND CCS LINK STATUS)

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RMV:RRCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK) be removed from service.

If the request is conditional, the system will remove the specified RRCLK side only if the mate RRCLK side is in-service [that is, active (ACT) or standby (STBY)]. If the request is unconditional the specified RRCLK side will be removed from service regardless of the state of the mate RRCLK side.

Removal of an active RRCLK side causes the currently standby side to become active.

WARNING: Unconditional removal of an RRCLK side when the mate RRCLK side is out of service will result in duplex failure of the RISLU.

2. FORMAT

```
RMV:RRCLK=a-b-c[,UCL][,SCREEN=d];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute removal unconditionally.

`a` = Switching module (SM) number.

`b` = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RRCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Although this option is syntactically correct, it is set internally for cross checking purposes and values entered here will be ignored.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST
```

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PF = Printout follows. Followed by the RMV:RRCLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST:RRCLK

Output Message(s):

RMV:RRCLK

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

145y,x (RISLU DLTU)

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RMV:RT-EOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:RT,EOC=a-b [,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:RT-EOC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:RT-EOC
STP:RT-EOC
```

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Output Message(s):

```
RMV:RT-EOC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)

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RMV:RT-TMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:RT,TMC=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:RT-TMC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:RT-TMC
STP:RT-TMC
```

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Output Message(s):

```
RMV:RT-TMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)

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RMV:RTFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) facility (FAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a remove of a DS1 facility.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:RTFAC=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RT FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:RTFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:RTFAC
STP:RTFAC
```

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Output Message(s):

```
RMV:RTFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)

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RMV:RVPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the revertive pulsing transceiver (RVPT) be removed from service.

2. FORMAT

```
RMV:RVPT=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally. Any existing user of the circuit will be preempted.

`a` = Switching module number.

`b` = Unit number.

`c` = Service group.

`d` = Circuit number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Output message will follow with completion status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:RVPT
RST:RVPT
STP:RVPT
```

Output Message(s):

```
RMV:RVPT
```

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RMV:SAS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a service announcement system (SAS) unit be removed from service.

WARNING: If the RMV input message is used with the 'UCL' option, the current customers will be preempted.

2. FORMAT

```
RMV:SAS=a-b [,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes the removal unconditionally. This will preempt the current users of this SAS.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the RMV:SAS output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

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```
RST:SAS
```

Output Message(s):

```
RMV:SAS
```

Input Appendix(es):

```
APP:RANGES
```

RMV:SBUS

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Removes the specified SCSI bus (SBUS) connected to a SCSI disk file controller (DFC). The message also removes any moving head disk (MHD) attached to the specified SCSI bus from service.

2. FORMAT

```
RMV:SBUS=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Use the OP:DFC or MHD:INFO message or the disk file system access page (DAP) to determine the member number of this SBUS unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:SBUS output message.

5. REFERENCES

Input Message(s):

```
OP:DFC-INFO
RMV:DFC
RMV:MHD
```

Output Message(s):

```
OP:MHD-INFO
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS
```

Input Appendix(es):

```
APP:RANGES
```

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MCC Display Page(s):

123 (DISK FILE SYSTEM ACCESS)

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RMV:SCAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a scan point board (SCAN) be removed from service.

2. FORMAT

```
RMV:SCAN=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally.
a	= Switching module (SM) number.
b	= Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:SCAN output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:SCAN

Input Appendix(es):

APP:RANGES

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RMV:SCC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified Switching Control Center (SCC) data link subdevice be removed from service.

Note: The mate unit of the specified SCC data link subdevice must be in service.

2. FORMAT

```
RMV:SCC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:SCC output message.

5. REFERENCES

Input Message(s):

```
DGN:MTTYC
RMV:MTTYC
RST:MTTYC
RST:SCC
```

Output Message(s):

```
DGN:MTTYC
RMV:MTTYC
RMV:SCC
RST:MTTYC
RST:SCC
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)

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RMV:SCSDC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified scanner and signal distributor controller (SCSDC) be removed from service.

2. FORMAT

```
RMV:SCSDC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:SCSDC output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:SCSDC
RMV:IOP
RST:IOP
RST:SCSDC
```

Output Message(s):

```
DGN:IOP
DGN:SCSDC
RMV:IOP
RMV:SCSDC
RST:IOP
RST:SCSDC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:SCTP

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the removal of a stream control transmission protocol (SCTP) by endpoint or association.

Format 1 allows for the state change to the near endpoint to `OOS MAN` and its associations to closed state.

Format 2 allows for the state change to the association specified to `CLOSED MAN`.

WARNING: Using the `UCL` option could be service-affecting causing the shut down of traffic.

2. FORMAT

```
[1]    RMV:SCTP,NEAREPT=a[,UCL];
```

```
[2]    RMV:SCTP,ASSOC=b[,UCL];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`UCL` = Execute the removal unconditionally. All stable calls will be disconnected (traffic release). For packet switching trunks, the UCL option overrides the check for the maintenance limit.

`a` = Endpoint name to be removed from service. This is a character string (≤20) that is provisioned on RC/V View 33.19 (SCTP NEAR END POINT).

`b` = Association number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. May also include:
- `DATABASE ERROR` = Unrecoverable database error has occurred.
- `INTERNAL ERROR` = Undetermined errors, possibly a software error. This response may be accompanied by an assert.
- `INVALID ASSOCIATION ID` = The association number entered was not valid.
- `INVALID NEAR ENDPOINT NAME` = The near endpoint name entered was not valid.

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PF = Printout follows. The request has been accepted. Followed by the RMV:SCTP output message.

RL = Retry later. May also include:
- AM OVERLOAD = AM is in overload.
- SM INACCESSIBLE = SM is not available (for example, isolation, initialization, and so forth).
- SYSTEM ERROR = The system is probably in overload due to too many requests. The OP:JOBSTATUS input message can be used to determine if the RL was because the maximum number of jobs are active.

5. REFERENCES

Input Message(s):

```
OP:JOBSTATUS
OP:ST-SCTP
STP:ST-SCTP
```

Output Message(s):

```
RMV:SCTP
```

Input Appendix(es):

```
APP:RANGES
```

RC/V View(s):

33.19	SCTP NEAR END POINT
33.22	SCTP ASSOCIATION

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RMV:SDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a *SLC®*96 digital facility interface (SDFI) be removed from service.

2. FORMAT

```
RMV:SDFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally, dropping stable calls.

`a` = Switching module (SM) number.

`b` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the RMV:SDFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
RMV:SDFI
RST:SDFI
STP:SDFI
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

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(DCLU)
(RT)

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RMV:SDL

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified synchronous data link (SDL) subdevice be removed from service.

2. FORMAT

```
RMV:SDL=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:SDL output message.

5. REFERENCES

Input Message(s):

```
DGN:SDLC
RMV:SDLC
RST:SDL
RST:SDLC
```

Output Message(s):

```
DGN:SDLC
RMV:SDL
RMV:SDLC
RST:SDL
RST:SDLC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:SDLC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified synchronous data link controller (SDLC) be removed from service.

2. FORMAT

```
RMV:SDLC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:SDLC output message.

5. REFERENCES

Input Message(s):

```
DGN:SDLC
RMV:SDL
RST:SDL
RST:SDLC
```

Output Message(s):

```
DGN:SDLC
RMV:SDL
RMV:SDLC
RST:SDL
RST:SDLC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:SFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI) be removed from service.

WARNING: A removal of an active SFI while the mate SFI is in standby will generate transient errors on the facilities.

An unconditional removal of an active SFI while the mate SFI is out of service, will result in a duplex failure of the SFI, disrupting service for the entire data group.

2. FORMAT

```
RMV:SFI=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:SFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:SFI
RST:SFI
STP:SFI
```

Output Message(s):

```
RMV:SFI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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RMV:SLIM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a subscriber line instrument measurement (SLIM) board be removed from service.

2. FORMAT

```
RMV:SLIM=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module (SM) number.

`b` = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SLIM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The RMV:SLIM output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:SLIM`

Input Appendix(es):

`APP:RANGES`

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RMV:STS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a synchronous transport signal - level 1 (STS1) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Unconditional removal of a facility may result in loss of calls.

2. FORMAT

```
RMV:STS1=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:STS1 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:STS1
RST:STS1
STP:STS1
```

Output Message(s):

```
RMV:STS1
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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RMV:STS3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a synchronous transport signal - level 3 concatenated (STS3C) facility be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Unconditional removal of a facility will result in a loss of calls on the optical interface unit (OIU) protection group (PG).

2. FORMAT

```
RMV:STS3C=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. This parameter is required.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:STS3C output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:STS3C
RST:STS3C
STP:STS3C
```

Output Message(s):

```
RMV:STS3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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RMV:STSFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be removed from service.

WARNING: An unconditional removal of an STSFAC will result in preempting stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), an STSFAC can be conditionally removed only if any CCS signaling data links (SDLs) on child facilities are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of an STSFAC may impact CCS operations.

2. FORMAT

```
RMV:STSFAC=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

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PF = Printout follows. Followed by the RMV:STSFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:STSFAC
RST:STSFAC
STP:STSFAC
```

Output Message(s):

```
RMV:STSFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-190-120 *Common Channel Signaling Services Features*

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)

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RMV:TAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a test and access (TAC) circuit be removed from service.

2. FORMAT

```
RMV:TAC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:TAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:TAC`

Input Appendix(es):

`APP:RANGES`

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RMV:TEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the analog trunk specified by the trunk equipment number (TEN) be removed from service.

2. FORMAT

```
RMV:TEN=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = TEN unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:TEN output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:TEN`

Input Appendix(es):

`APP:RANGES`

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RMV:TMSFP

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified time multiplexed switch (TMS) fabric pair (TMSFP) be removed from service. This command also has the option of removing the TMSFP and all of its child units to the OOS,MAN,RMV state.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks are made to see whether removing the TMSFP is service affecting. If the removal affects service, the request is denied.

If the UCL option is used, the TMSFP is removed whether it affects calls or not.

2. FORMAT

```
RMV:TMSFP=a-b[,ALL][,UCL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Removes the TMSFP and all its child units (for example, QLPSs, NLIs, DLIs) to the OOS,MAN,RMV state.

`UCL` = Unconditionally remove the TMSFP.

`a` = ONTC side that the TMSFP is on.

`b` = TMS fabric pair number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A RMV:TMSFP output message will follow in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ABT:TMSFP`

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```
OP:CFGSTAT
OP:DMQ-CM-SM
STP:TMSFP
```

Output Message(s):

```
OP:CFGSTAT
OP:DMQ-CM
RMV:TMSFP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

MCC Display Page(s):

1212	TMS FABRIC PAIR STATUS
1214	QLPS SUMMARY
1220,b	TMS LINK SUMMARY (where b=TMSFP number).

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RMV:TMUX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX) be removed from service.

WARNING: An unconditional removal of a TMUX may result in preempting stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a TMUX can be conditionally removed only if any CCS signaling data links (SDLs) on child facilities are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a TMUX may impact CCS operations.

2. FORMAT

```
RMV:TMUX=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:TMUX output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
ABT:TMUX
RST:TMUX
STP:TMUX
```

Output Message(s):

```
RMV:TMUX
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-190-120 *Common Channel Signaling Services Features*

MCC Display Page(s):

1510 (DNUS STATUS)

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RMV:TRIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Removes a PCT (Peripheral Control and Timing) link tributary (TRIB) from service either conditionally (by waiting for it to become idle), or unconditionally, by pre-empting the current user.

2. FORMAT

```
RMV:TRIB=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:TRIB output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:TRIB
RST:TRIB
STP:TRIB
```

Output Message(s):

```
RST:TRIB
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1430 (PLTU Status page)
1431 (PLTU Facility Status page)

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RMV:TRK-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the removal of a trunk from service and places it in the specified out-of-service (OOS) status. The ability to remove a trunk group is also provided.

If the trunk is in service at the time of the request, the OOS status will be added and the trunk will be restricted accordingly. If the trunk is already OOS, the OOS status will be added to the trunk according to the trunk status hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on a trunk.

If the trunk is traffic-busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested. If camped on, a STP:CAMPON input request can stop the campon (and abort the removal), if desired. If removed unconditionally, the trunk is preempted and all stable calls in progress on the trunks are torn down.

If the trunk is a packet pipe trunk or a packet pipe member trunk, a conditional remove will be denied (camp-ons are not allowed). Trunks associated with a packet pipe are nailed-up paths that carry CDMA packets that are distributed to any number of speech handler (SH) trunks. There is no way to determine if call traffic is present on these trunks so only an unconditional remove will be allowed. An unconditional removal of a packet pipe trunk or a packet pipe member trunk may impact up to 30 calls.

If the trunk to be removed is a PRI D-channel, the associated B-channels will also be removed from service unless the PRI is equipped with a backup D-channel and that backup D-channel is not already manually out-of-service. If a PRI is equipped with a backup D-channel, both D-channels must be removed from service before the B-channels will be taken out-of-service. This can be accomplished by using either the PRIGRP option on the RMV:TRK input request or by removing the two D-channel trunks with 2 individual RMV:TRK input requests. Except for the PRIGRP option, PRI D-channels can only be removed one at a time. Specifying a range of D-channel trunks or a D-channel trunk group is not allowed. OSPS PRIs cannot have a backup D-channel.

For internal protocol (IP) packet switching (PS) traffic busy trunks, a conditional removal will remove the trunk from service without camping-on and the PS calls will be transferred to other in-service trunks within the same trunk group.

A conditional removal of a PS trunk will camp-on only if it is involved in loopback testing. A conditional removal request for a PS trunk will be denied if the trunk removal would result in exceeding the packet switching maintenance limit (PSML), 25% of the trunk group size. The PSML is rounded off to the nearest whole number and if the trunk group size is less than 4 then the PSML is set to 1. The UCL option will override the PSML check. The PSML check does not apply to XAT ports.

Adding the OOS,MTCE,DSBLD,TRBL status to the trunk will cause in progress block/unblock/reset sending to stop.

While in the OOS,MTCE,DSBLD,TRBL status, additional block/unblock sending can start.

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An OOS condition on a trunk may be deleted using the RST:TRK input request.

WARNING: Using the UCL option could be service-affecting.

Specifying RMV:TRK,PRIGRP= or RMV:TRK,PRIGRP= ,CH=D can affect service on all B-channels assigned to the PRI. At most, 479 B-channels may be assigned to a PRI. If the UCL option is used with either of these two RMV:TRK formats, all calls on the PRI's B-channels are cleared. While camped onto an entire PRI with either of these two RMV:TRK formats, no new calls are allowed on the PRI.

2. FORMAT

RMV:TRK,a[,UCL|CAMPON=y][:[a[1]][,b[1]][,c[1]][,d[1]]][,SUM];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Remove all trunks on the remote terminal from service.

SUM = Generate a summary report.

UCL = Execute the removal unconditionally. All stable calls will be disconnected (traffic release). For packet switching trunks, the UCL option overrides the check for the maintenance limit.

a = Unit. Valid value(s):

DEN=b-c-d-e[,FAC=w] = The SDL may be removed conditionally if the parent CCS signaling link is in the DACT state. The parent signaling link can be determined by use of the RC/V Views 7.41 or 7.42. No state should be specified since the OOS-MTCE-DSBLD state is the default and only valid state. Finally, the UCL option is available but will cause service interruptions if the SDL is servicing traffic.

ILEN=b-f-g-h

INEN=b-e[1]-g-n

MLHG=i-j

NEN=a-e[1]-f[1]-n[1]-g[1]-h[1]-o[1]-i[1]

OIUEN=b-v[1]-w[1]-x[1]-y[1]-z[1]-a[2]-s[1]

PKTDN=k

PLTEN=b-p[1]-q[1]-r[1]-s[1]

PRIGRP=l[,CH=w] = If the type of channel to be removed is not specified, the D-channel(s) of the PRI group will be removed to the specified or default port status. Format 5 allows the option of removing either the D-channel(s) of the PRI group or all the B-channels of the PRI group. This format cannot be used for operator services position system (OSPS) PRIs because they are not assigned PRI group numbers.

PSUEN=b-j[1]-k[1]-l[1]-m[1]

SLEN=b-m-n-{h|ALL}

TEN=b-o-p-q-r

TG=s

TKGMN=t-u[&&v]

VTRK=b-t[1]-u[1]

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`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 0 and channels 25-48 are associated with facility T1 1.

If ALL is specified, all channels on the DFI will be removed from service. For DFI-1, this will be channels 1-24. For DFI-2, this will be channels 1-48. The FAC option can be used to specify which set of 24 channels to remove for a DFI-2. Refer to the FAC option (variable '`w`') for additional information.

`f` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Directory number.

`l` = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`q` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Number of the trunk group to be removed from service.

Using this will remove all members of the trunk group specified and could potentially isolate the far-end office.

`t` = Trunk group or bearer independent call control (BICC) group number.

`u` = Trunk member or normalized call instance code (CIC), or lower limit of a range of trunk member numbers or normalized CICs.

`v` = Upper limit of a range of trunk member numbers or normalized CICs.

`w` = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

`0` = Facility 0 is channels 1 through 24 on a DFI-2. Specifying this will remove channels 1 though 24.

`1` = Facility 1 is channels 25 through 48 on a DFI-2. Specifying this will remove channels 25 through 48.

When used with the DEN identifier, this option specifies the facility to be removed. It is only valid for DFI-2 hardware. The DEN identifier must have the channel set to ALL.

`x` = Channel. Valid value(s):

`B` = Specifying this will cause all of the B-channel(s) of the PRI group to be removed to the specified or default status.

`D` = Specifying this will cause the D-channel(s) of the PRI group to be removed to the specified or default status. If the PRI has a backup D-channel assigned, it will also be removed.

When used with the PRIGRP identifier, this option specifies which channels on the PRIGRP are to be removed.

`y` = Camp-on time limit in minutes (0-1438). (Default is 2 minutes for OSPS-PRI trunks, 20 minutes for all others). Camp on the trunk for the specified time interval if it is traffic busy.

Status subfields are always separated by a single comma even if in-between statuses are omitted.

If variables '`a`[1]', '`b`[1]', and '`c`[1]' are omitted, they will default based on trunk type.

Trunk Type	Default Status
One-way incoming	OOS,MTCE,DSBLD
Two-way	OOS,MTCE,DSBLD
One-way outgoing	OOS,MTCE,DSBLD
Announcement	OOS,MTCE,RAP

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XAT	OOS,MTCE,DSBLD

If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

A trunk type of announcement will identify either a recorded announcement facility (RAF) or service announcement system (SAS). Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Message manual to determine valid states for each port type.

a[1] = Basic state. Valid value(s):

- OOS = Out-of-service (default).

b[1] = Qualifier (choose one or omit). Valid value(s):

- BLKD = Blocked. If basic state field 'a[1]' is not specified, it will be defaulted to OOS.
- CADN = Circuit administration. If basic state field 'a[1]' is not specified, it will be defaulted to OOS.

  If CADN is specified, the operational restriction of DSBLD or LKDO must also be specified.
- MTCE = Maintenance. If basic state field 'a[1]' is not specified, it will be defaulted to OOS.
- TMT = Traffic management (valid only for outgoing trunks). If basic state field 'a[1]' is not specified, it will be defaulted to OOS.

c[1] = Operational restrictions (choose one or omit). Valid value(s):

- DSBLD = Disabled (not valid for recorded announcement trunks). Implies busy to outgoing calls and seizure toward distant office If qualifier field 'b[1]' is not specified, it will be defaulted to MTCE.
- LKDO = Locked out (valid only for two-way trunks). Implies busy to outgoing calls only. If qualifier field 'b[1]' is not specified, it will be defaulted to MTCE.
- RAP = Recorded announcement port (valid only for recorded announcement or service announcement system trunks). Implies that the particular announcement trunk will not be selected. If qualifier field 'b[1]' is not specified, it will be defaulted to MTCE.

d[1] = Supplementary information (choose one or omit). Valid value(s):

- AML = Automatic maintenance limit.
- AUDIT = Audit-detected problem.
- CAMA = Central automatic message accounting.
- CAROT = Centralized automatic reporting on trunks.
- CDI = Control and data interface.
- CKT = Circuit.
- CTTU = Central trunk testing unit.
- DFI = Digital facility interface.
- FORPOT = Foreign potential.
- GRID = Line unit grid.
- IAA = Ineffective attempt analysis.
- PCTF = Per-call test failure.
- PPM = Periodic pulse metering.

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PVELBK	= Protocol handler voice encoding loopback test failed.
REX	= Routine exercise.
RO	= Routine/other reasons.
ROTF	= Operational test failure.
SCC	= Switching control center.
TICOM	= Treated interface common circuit.
TRBL	= Unspecified trouble.
TRBLORG	= Origination trouble.
TRKBD	= Trunk board.
TRKCT	= Trunk circuit.

e[1] = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all channels on the VT1.5 facility will be removed from service.

j[1] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all members on the PSU channel group will be removed from service.

n[1] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[1] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[1] = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`r`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If `ALL` is specified, all channels on that facility will be removed.

`t`[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the RMV:TRK output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:JOBSTATUS
RMV:LINE
RST:TRK
STP:CAMPON
```

Output Message(s):

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```
REPT:CAMPON
RMV:TRK
REPT:TRK-SUM
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:PORT-STATUS
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-190-104 *IDSN Feature Description*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*
235-900-341 *National ISDN Basic Rate Interface Specification*

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RMV:TRK-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the removal of a trunk from service and places it in the specified out-of-service (OOS) status. The ability to remove a trunk group is also provided.

If the trunk is in service at the time of the request, the OOS status will be added and the trunk will be restricted accordingly. If the trunk is already OOS, the OOS status will be added to the trunk according to the trunk status hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on a trunk.

If the trunk is traffic-busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested. If camped on, a STP:CAMPON input request can stop the campon (and abort the removal), if desired. If removed unconditionally, the trunk is preempted and all stable calls in progress on the trunks are torn down.

If the trunk is a packet pipe trunk or a packet pipe member trunk, a conditional remove will be denied (camp-ons are not allowed). Trunks associated with a packet pipe are nailed-up paths that carry CDMA packets that are distributed to any number of speech handler (SH) trunks. There is no way to determine if call traffic is present on these trunks so only an unconditional remove will be allowed. An unconditional removal of a packet pipe trunk or a packet pipe member trunk may impact up to 30 calls.

When PSUEN for the PCF trunk is entered, the entire PCF trunk group will be removed.

If the trunk to be removed is a PRI D-channel, the associated B-channels will also be removed from service unless the PRI is equipped with a backup D-channel and that backup D-channel is not already manually out-of-service. If a PRI is equipped with a backup D-channel, both D-channels must be removed from service before the B-channels will be taken out-of-service. This can be accomplished by using either the PRIGRP option on the RMV:TRK input request or by removing the two D-channel trunks with 2 individual RMV:TRK input requests. Except for the PRIGRP option, PRI D-channels can only be removed one at a time. Specifying a range of D-channel trunks or a D-channel trunk group is not allowed. OSPS PRIs cannot have a backup D-channel.

For internal protocol (IP) packet switching (PS) traffic busy trunks, a conditional removal will remove the trunk from service without camping-on and the PS calls will be transferred to other in-service trunks within the same trunk group.

A conditional removal of a PS trunk will camp-on only if it is involved in loopback testing. A conditional removal request for a PS trunk will be denied if the trunk removal would result in exceeding the packet switching maintenance limit (PSML), 25% of the trunk group size. The PSML is rounded off to the nearest whole number and if the trunk group size is less than 4 then the PSML is set to 1. The UCL option will override the PSML check. The PSML check does not apply to XAT ports.

Adding the OOS,MTCE,DSBLD,TRBL status to the trunk will cause in progress block/unblock/reset sending to stop.

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While in the OOS,MTCE,DSBLD,TRBL status, additional block/unblock sending can start.

An OOS condition on a trunk may be deleted using the RST:TRK input request.

WARNING: Using the UCL option could be service-affecting.

Specifying RMV:TRK,PRIGRP= or RMV:TRK,PRIGRP= ,CH=D can affect service on all B-channels assigned to the PRI. At most, 479 B-channels may be assigned to a PRI. If the UCL option is used with either of these two RMV:TRK formats, all calls on the PRI's B-channels are cleared. While camped onto an entire PRI with either of these two RMV:TRK formats, no new calls are allowed on the PRI.

2. FORMAT

RMV:TRK,a[,UCL|CAMPON=y][:[a[1]][,b[1]][,c[1]][,d[1]]][,SUM];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Remove all trunks on the remote terminal from service.

SUM = Generate a summary report.

UCL = Execute the removal unconditionally. All stable calls will be disconnected (traffic release). For packet switching trunks, the UCL option overrides the check for the maintenance limit.

a = Unit. Valid value(s):

DEN=b-c-d-e[,FAC=w] = The SDL may be removed conditionally if the parent CCS signaling link is in the DACT state. The parent signaling link can be determined by use of the RC/V Views 7.41 or 7.42. No state should be specified since the OOS-MTCE-DSBLD state is the default and only valid state. Finally, the UCL option is available but will cause service interruptions if the SDL is servicing traffic.

ILEN=b-f-g-h

INEN=b-e[1]-g-n

MLHG=i-j

NEN=b-e[1]-f[1]-n[1]-g[1]-h[1]-o[1]-i[1]

OIUEN=b-v[1]-w[1]-x[1]-y[1]-h[1]-o[1]-s[1]

PKTDN=k

PLTEN=b-p[1]-q[1]-r[1]-s[1]

PRIGRP=l[,CH=w] = If the type of channel to be removed is not specified, the D-channel(s) of the PRI group will be removed to the specified or default port status. Format 5 allows the option of removing either the D-channel(s) of the PRI group or all the B-channels of the PRI group. This format cannot be used for operator services position system (OSPS) PRIs because they are not assigned PRI group numbers.

PSUEN=b-j[1]-k[1]-l[1]-m[1]

SLEN=b-m-n-{h|ALL}

TEN=b-o-p-q-r

TG=s

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```
TKGMN=t-u[&&v]
VTRK=b-t1-u1
ATMPP=b-j1-b2-c2
```

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 0 and channels 25-48 are associated with facility T1 1.

If ALL is specified, all channels on the DFI will be removed from service. For DFI-1, this will be channels 1-24. For DFI-2, this will be channels 1-48. The FAC option can be used to specify which set of 24 channels to remove for a DFI-2. Refer to the FAC option (variable 'w') for additional information.

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Directory number.

l = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`p` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Number of the trunk group to be removed from service.

Using this will remove all members of the trunk group specified and could potentially isolate the far-end office.

`t` = Trunk group or bearer independent call control (BICC) group number.

`u` = Trunk member or normalized call instance code (CIC), or lower limit of a range of trunk member numbers or normalized CICs.

`v` = Upper limit of a range of trunk member numbers or normalized CICs.

`w` = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

- `0` = Facility 0 is channels 1 through 24 on a DFI-2. Specifying this will remove channels 1 though 24.
- `1` = Facility 1 is channels 25 through 48 on a DFI-2. Specifying this will remove channels 25 through 48.

When used with the DEN identifier, this option specifies the facility to be removed. It is only valid for DFI-2 hardware. The DEN identifier must have the channel set to ALL.

`x` = Channel. Valid value(s):

- `B` = Specifying this will cause all of the B-channel(s) of the PRI group to be removed to the specified or default status.
- `D` = Specifying this will cause the D-channel(s) of the PRI group to be removed to the specified or default status. If the PRI has a backup D-channel assigned, it will also be removed.

When used with the PRIGRP identifier, this option specifies which channels on the PRIGRP are to be removed.

Status subfields are always separated by a single comma even if in-between statuses are omitted.

If variables '`a`[1]', '`b`[1]', and '`c`[1]' are omitted, they will default based on trunk type.

Trunk Type	Default Status
One-way incoming	OOS,MTCE,DSBLD
Two-way	OOS,MTCE,DSBLD
One-way outgoing	OOS,MTCE,DSBLD
Announcement	OOS,MTCE,RAP
XAT	OOS,MTCE,DSBLD

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If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

A trunk type of announcement will identify either a recorded announcement facility (RAF) or service announcement system (SAS). Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Message manual to determine valid states for each port type.

`y` = Camp-on time limit in minutes (0-1438). (Default is 2 minutes for OSPS-PRI trunks, 20 minutes for all others). Camp on the trunk for the specified time interval if it is traffic busy.

`a`[1] = Basic state. Valid value(s):

`OOS` = Out-of-service (default).

`b`[1] = Qualifier (choose one or omit). Valid value(s):

`BLKD` = Blocked. If basic state field '`a`[1]' is not specified, it will be defaulted to OOS.

`CADN` = Circuit administration. If basic state field '`a`[1]' is not specified, it will be defaulted to OOS.

If CADN is specified, the operational restriction of DSBLD or LKDO must also be specified.

`MTCE` = Maintenance. If basic state field '`a`[1]' is not specified, it will be defaulted to OOS.

`TMT` = Traffic management (valid only for outgoing trunks). If basic state field '`a`[1]' is not specified, it will be defaulted to OOS.

`c`[1] = Operational restrictions (choose one or omit). Valid value(s):

`DSBLD` = Disabled (not valid for recorded announcement trunks). Implies busy to outgoing calls and seizure toward distant office If qualifier field '`b`[1]' is not specified, it will be defaulted to MTCE.

`LKDO` = Locked out (valid only for two-way trunks). Implies busy to outgoing calls only. If qualifier field '`b`[1]' is not specified, it will be defaulted to MTCE.

`RAP` = Recorded announcement port (valid only for recorded announcement or service announcement system trunks). Implies that the particular announcement trunk will not be selected. If qualifier field '`b`[1]' is not specified, it will be defaulted to MTCE.

`d`[1] = Supplementary information (choose one or omit). Valid value(s):

`AML` = Automatic maintenance limit.

`AUDIT` = Audit-detected problem.

`CAMA` = Central automatic message accounting.

`CAROT` = Centralized automatic reporting on trunks.

`CDI` = Control and data interface.

`CKT` = Circuit.

`CTTU` = Central trunk testing unit.

`DFI` = Digital facility interface.

`FORPOT` = Foreign potential.

`GRID` = Line unit grid.

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IAA	= Ineffective attempt analysis.
PCTF	= Per-call test failure.
PPM	= Periodic pulse metering.
PVELBK	= Protocol handler voice encoding loopback test failed.
REX	= Routine exercise.
RO	= Routine/other reasons.
ROTF	= Operational test failure.
SCC	= Switching control center.
TICOM	= Treated interface common circuit.
TRBL	= Unspecified trouble.
TRBLORG	= Origination trouble.
TRKBD	= Trunk board.
TRKCT	= Trunk circuit.

e[1] = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all channels on the VT1.5 facility will be removed from service.

j[1] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all members on the PSU channel group will be removed from service.

n[1] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[1] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[1] = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input

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Messages manual.

q[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all channels on that facility will be removed.

t[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x[1] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[2] = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[2] = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the RMV:TRK output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:JOBSTATUS
RMV:LINE
RST:TRK
STP:CAMPON
```

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Output Message(s):

```
REPT:CAMPON
RMV:TRK
REPT:TRK-SUM
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:PORT-STATUS
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-190-104 *IDSN Feature Description*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*
235-900-341 *National ISDN Basic Rate Interface Specification*

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RMV:TTFCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a transmission test facility common (TTFCOM) circuit pack be removed from service.

2. FORMAT

```
RMV:TTFCOM=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = Global digital service unit number.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:TTFCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:TTFCOM`

Input Appendix(es):

`APP:RANGES`

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RMV:TTY

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified teletypewriter (TTY) be removed from service.

2. FORMAT

```
RMV:TTY=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:TTY output message.

5. REFERENCES

Input Message(s):

```
DGN:TTYC
RMV:TTYC
RST:TTY
RST:TTYC
```

Output Message(s):

```
DGN:TTYC
RMV:TTY
RMV:TTYC
RST:TTY
RST:TTYC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:TTYC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified teletypewriter controller (TTYC) and any associated teletypewriters be removed from service.

2. FORMAT

```
RMV:TTYC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:TTYC output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:TTYC
RMV:IOP
RST:IOP
RST:TTYC
```

Output Message(s):

```
DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTYC
RST:IOP
RST:TTYC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

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RMV:TUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk unit channel board (TUCHBD) be removed from service.

2. FORMAT

```
RMV:TUCHBD=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:TUCHBD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:TUCHBD`

Input Appendix(es):

`APP:RANGES`

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RMV:UCONF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a universal conference (UCONF) circuit board be removed from service.

2. FORMAT

```
RMV:UCONF=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Execute the removal unconditionally.
a	= Switching module number.
b	= Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Digital service circuit unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:UCONF output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:UCONF

Input Appendix(es):

APP:RANGES

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RMV:UMBIL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a host umbilical (UMBIL) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for host umbilicals terminating on a digital line and trunk unit (DLTU) or on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a remove of a host facility (HFAC) or a DS1 facility.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

```
RMV:UMBIL=a-b-c[,UCL|REMAP];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

`REMAP` = Move calls off of particular time slots with minimal disruption to the talk path during remove of this Umbilical.

`a` = Host Switch Module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Host Switch Module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = UMBIL number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:UMBIL output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:UMBIL
STP:UMBIL
RST:UMBIL
```

Output Message(s):

```
RMV:UMBIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1740,xxx,yyy (HOST UMBILICALS (1 - 10))
1741,xxx,yyy (HOST UMBILICALS (11 - 20))

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RMV:UTD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a universal tone decoder (UTD) board be removed from service. A preempt will be executed only if the office out-of-service limit is not exceeded by this remove request. The office out-of-service limit for UTDs is 60% of the totally equipped UTDs.

2. FORMAT

```
RMV:UTD=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes the removal of the UTD unconditionally, unless removing it will result in a loss of call processing.

`a` = Switching module (SM) number.

`b` = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:UTD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:UTD`

Input Appendix(es):

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APP:RANGES

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RMV:UTG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a universal tone generator (UTG) board be removed from service. A preempt will be executed only if the office out-of-service limit is not exceeded by this remove request. The office out-of-service limit for UTGs is 50% of the totally equipped UTGs.

2. FORMAT

```
RMV:UTG=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Executes the removal of the UTG unconditionally, unless removing it will result in a loss of call processing.
a	= Switching module (SM) number.
b	= Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RMV:UTG output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:UTG

Input Appendix(es):

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APP:RANGES

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RMV:VIOP

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified virtual input/output processor (VIOP) and any associated peripheral controllers (PCs) be removed from service.

2. FORMAT

```
RMV:VIOP=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:VIOP output message.

5. REFERENCES

Input Message(s):

`RST:VIOP`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
COMMON PROCESSOR

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RMV:VNCR

Software Release: 5E15 and later
Command Group: SM
Application: 7
Type: Input

1. PURPOSE

Requests that a virtual network conference resource (VNCR) be removed from service.

2. FORMAT

```
RMV:VNCR=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the removal unconditionally.

`a` = Switching module number.

`b` = Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RMV:VNCR output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:VNCR`

Input Appendix(es):

`APP:RANGES`

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RMV:VT15

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a virtual tributary - level 1.5 (VT15) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Unconditional removal of a facility may result in loss of calls.

2. FORMAT

```
RMV:VT15=a-b-c-d-e-f-g[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the removal.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

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`PF` = Printout follows. Followed by the RMV:VT15 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:VT15
RST:VT15
STP:VT15
```

Output Message(s):

```
RMV:VT15
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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RMV:VT1FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be removed from service.

WARNING: An unconditional removal of a VT1FAC will result in preempting stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a VT1FAC can be conditionally removed only if any CCS signaling data links (SDLs) on this facility are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a VT1FAC may impact CCS operations.

2. FORMAT

```
RMV:VT1FAC=a-b-c-d-e-f-g[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Executes removal unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:VT1FAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:VT1FAC
RST:VT1FAC
STP:VT1FAC
```

Output Message(s):

```
RMV:VT1FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-190-120 *Common Channel Signaling Services Features*

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)

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RMV:VTTY

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified virtual teletypewriter (VTTY) be removed from service.

2. FORMAT

```
RMV:VTTY=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:VTTY output message.

5. REFERENCES

Input Message(s):

```
RMV:VTTYC
RST:VTTY
RST:VTTYC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RMV:VTTYC

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified virtual teletypewriter controller (VTTYC) and any associated virtual teletypewriters be removed from service.

2. FORMAT

```
RMV:VTTYC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RMV:VTTYC output message.

5. REFERENCES

Input Message(s):

```
RMV:VIOP
RST:VIOP
RST:VTTYC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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68. RST

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RST:AIUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit common data and control controller (COMDAC) be restored to service. If this is a restore from duplex failure, the COMDAC will be restored to the active major state, otherwise the COMDAC will be restored to active minor.

2. FORMAT

```
RST:AIUCOM=a-b-c[,CAMPON=d][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number.
b	= AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Camp-on time is minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RST:AIUCOM output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:AIUCOM

Input Appendix(es):

APP:RANGES

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MCC Display Page(s):

1320,y,x (AIU SUMMARY)

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RST:AIULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) line circuit (LC) be restored to service.

2. FORMAT

```
RST:AIULC=a-b-c-d[,CAMPON=e][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally without diagnostics.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Camp-on time is minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST AIULC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:AIULC`

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

1323,y,z,x (AIU AP STATUS)

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RST:AIULP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) line pack (LP) be restored to service.

2. FORMAT

```
RST:AIULP=a-b-c[,CAMPON=d][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Camp-on time is minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RST:AIULP output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:AIULP

Input Appendix(es):

APP:RANGES

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MCC Display Page(s):

1320,y,x (AIU SUMMARY)
1323,y,z,x (AIU AP STATUS)

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RST:AIUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) timeslot group (TSGRP) be restored to service.

2. FORMAT

```
RST:AIUTSGRP=a-b-c-d[,CAMPON=e][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e	= Camp-on time is minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RST AIUTSGRP output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:AIUTSGRP

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

1321,y,x (AIU TSGRP SUMMARY)

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RST:AIURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) ring generator (RG) be restored to service.

2. FORMAT

```
RST:AIURG=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= RG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the RST:AIURG output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:AIURG

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1320,y,x (AIU SUMMARY)

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1322,y,x (AIU RG STATUS)

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RST:ALINK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit model 2 (LU2) or a line unit model 3 (LU3) A-link be restored to the active state.

2. FORMAT

```
RST:ALINK=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied, the message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by RST:ALINK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:ALINK`

Input Appendix(es):

`APP:RANGES`

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RST:ALIT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an automatic line insulation test (ALIT) board in a metallic service unit (MSU) be conditionally or unconditionally restored restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:ALIT=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restores unconditionally.
a	= Switching module number.
b	= MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= MSU board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:ALIT output message.

5. REFERENCES

Output Message(s):

RST:ALIT

Input Appendix(es):

APP:RANGES

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RST:ASC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be restored to service.

2. FORMAT

```
RST:ASC=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Return the circuit to service unconditionally (without diagnostic testing).

`a` = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the RST:ASC output message.

5. REFERENCES

Input Message(s):

```
RMV:ASC
```

Output Message(s):

```
RST:ASC
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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RST:BICCCADN

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the restoration of a single bearer-independent call control (BICC) block to service and the removal of all the call instance codes (CICs) of the specified block from the circuit administration (CADN) out-of-service (OOS) list and their restoration to the in-service (IS) state. Only those CIC members that are initiially in the OOS CADN state will be considered as being included in the RST:BICCCADN command, and CICs in any other state will be considered as being excluded by the input message.

The provisioned CICs required by the BICC protocol for each origination point code (OPC) and destination point code (DPC) are divided into blocks of 128 and are stored on switching module (SM)-2000(s). that is provisioned as being BICC-capable. The command sends a BICC circuit group reset (GRS) message to the far end to unblock the included BICC CICS. Any CICs in the BICC block

2. FORMAT

```
RST:BICCCADN,BGMN=a-b&&c;
```

3. EXPLANATION OF MESSAGE

`a` = BICC trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = CIC for first member of the BICC CIC block.

The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127). The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).

`c` = CIC for last member of the BICC CIC block.

The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127). The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and an OP:SS7 output message will follow.

`NG` = No good. May also include:
- `BAD CIC INPUT` = The craft entered a member range that is incorrect.
- `STARTING CIC NOT AT BEGINNING OF BLOCK` = The starting CIC is not at the beginning of a BICC CIC block.
- `RANGE OF CICS INCORRECT` = The ranges of CICs is not an exact BICC CIC block.

5. REFERENCES

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Output Message(s):

```
RST:BICCCADN
```

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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RST:BTSR

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the bootstrapper boards (BTSR) be restored to the active state.

If restoration is conditional, then the diagnostic will be run. All tests must be passed before the units are restored to service. If restoration is unconditional, then no testing is performed.

2. FORMAT

```
RST:BTSR=a[&&b][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the restoration unconditionally.

`a` = Switching module (SM) number, or lower limit for a range of SMs.

`b` = Upper limit for a range of SMs.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:BTSR output message will follow.

5. REFERENCES

Output Message(s):

`RST:BTSR`

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RST:CCSLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Restores service to a common channel signaling (CCS) link(s) by removing the deactivating, inhibiting, or blocking status on that link(s).

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
RST:CCSLK,SET=a[&&b],MEMBER=c[&&d],STATE=e[,SM=f];
```

3. EXPLANATION OF MESSAGE

`a` = Link set number or lower limit of a range of link set numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. The range of numbers need not start or end with equipped link set numbers.

`b` = Upper limit of a range of link set numbers.

`c` = Link member number or lower limit of a range of link member numbers. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped link member numbers.

`d` = Upper limit of a range of link member numbers.

`e` = Link state. Valid value(s):

- `BLK` = Removes the block status from a link(s).
- `DACT` = Removes the deactivated status from a link(s).
- `INH` = Removes the inhibit status from a link(s).

`f` = Global switching module (GSM) number. CCS GSM number on which the link to be restored terminates. If no SM number is specified and only one CCS GSM exists in the office, the specified link on that CCS GSM will be processed. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `NEED GSM NUMBER` = SM was not specified in the input message, and office has more

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than one GSM provisioned.

`PF` = Printout follows. Followed by the RST:CCSLK output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

Output Message(s):

`REPT:CCSLK`
`RST:CCSLK`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)

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RST:CDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be restored to service.

2. FORMAT

```
RST:CDFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Return the circuit to service unconditionally (without diagnostic testing).

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status.

- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. An RST:CDFI output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RMV:CDFI`

Output Message(s):

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```
RST:CDFI
```

Input Appendix(es):

```
APP:RANGES
```

RST:CDI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk unit control data interface (CDI) be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:CDI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally (without diagnosis).
a	= Switching module number.
b	= Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:CDI output message.

5. REFERENCES

Output Message(s):

RST:CDI

Input Appendix(es):

APP:RANGES

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RST:CLNK

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that one or all of the specified communication links (CLNKs) be restored to an available state ('hardware available', 'active' or 'ready for level 2').

2. FORMAT

```
RST:CLNK{=a-b-c-d|,ALL};
```

3. EXPLANATION OF MESSAGE

`ALL` = Restore all communication links that are in an out-of-service fault or manual removed state.

It is not an error to request 'ALL' with no communication links in an out-of-service fault or manual removed state.

`a` = Switching module (SM) number.

`b` = Office network and timing complex (ONTC) side (0 or 1).

`c` = Module message processor (MMP) type. Valid value(s):
`0` = Alpha.
`1` = Beta.

`d` = Message switch (MSGS) side (0 or 1).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `ALL NOT VALID WITH A SINGLE UNIT` = A single CLNK and ALL may not be specified together.
- `UNIT UNEQUIPPED` = The specified single CLNK is unequipped.

`PF` = Printout follows. A printout will follow when the requested action is completed.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
RMV:CLNK
```

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Output Message(s):

```
OP:CFGSTAT
RST:CLNK
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(CLNK SUMMARY)

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RST:CMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a conditional or unconditional restore of a communication module processor (CMP) to the active or standby state.

Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
RST:CMP=a-b[,UCL][,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the CMP to the standby state rather than the active state (the default).

`UCL` = Restore the CMP unconditionally. No diagnostics are performed.

Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

`a` = Message switch side number.

`b` = CMP number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by a RST:CMP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

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```
DGN:CMP
RST:CMP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)

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RST:CPE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a specified customer premises equipment (CPE) integrated services digital network (ISDN) terminal on custom multi-point (MP) and standard interface digital subscriber line (DSL) be restored to service.

This input message will restore service to a CPE that has previously been removed from service manually with the RMV:CPE input message. If a CPE has been removed from service automatically by the network, this input message will attempt to restore the CPE back to service, but if the CPE is illegally configured on the DSL, then the CPE will stay out-of-service (OOS). If the CPE restored to service is a member of modem pool group, the "OOS FE MPOOS AUTO" status on the analog port of this member is deleted. An alternative method of restoring all CPE on a single DSL is to remove the entire DSL using the RMV:LINE input message and then to restore the line using RST:LINE. However, this will remove all services to all subscribers on the DSL while the DSL is OOS.

2. FORMAT

```
RST:CPE,a[,TEI=h][,UCL];
```

3. EXPLANATION OF MESSAGE

`a` = Equipment number or identifier. Valid value(s):

```
AIUEN=d-o-p-q
DN=r
ILEN=d-i-j-k
INEN=d-s-j-k
LCEN=d-e-f-g
LCKEN=d-e-l-m-n
MLHG=b-c
PKTDN=r
```

`b` = Multi-line hunt group (MLHG) number of the subscriber associated with the CPE. This option is only valid if a CPE has identified itself as being associated with that MLHG subscriber.

`c` = Multi-line hunt member number of the subscriber.

`d` = Switching module (SM) in which the DSL exists.

`e` = Integrated services line unit (ISLU) or ISLU version 2 (ISLU2) in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Line group controller (LGC) in the ISLU in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Line card of the ISLU line group controller to which the DSL connects. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`h` = Terminal endpoint identifier (TEI) that identifies the particular CPE to be restored. The ILEN|INEN|LCEN|LCKEN/TEI identification can be used to restore any out-of-service (OOS) CPE on a DSL It is the only way to restore a CPE that is not associated with a specific subscriber on the DSL (for example, a CPE that is receiving default service). The TEI is dynamically assigned to a CPE when the CPE establishes its layer 2 connection with the network. The trunk and line work station (TLWS) DSL display or the OP:CPE input message can be used to determine what CPEs currently have layer 2 established on the DSL and what TEI has been assigned to each CPE.

`i` = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Access interface unit (AIU) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Circuit directory number (DN) or packet directory number (PKTDN) of the subscriber associated with the CPE. This option is only valid if a CPE exists which has identified itself as being associated with that subscriber. For key-system services, only primary DNs are valid. For non-key-system services, any DN associated with the

`s` = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The input request was in some way invalid, most likely because a value was out of range. Identify the error with the original request and repeat the request.

`PF` = Printout follows. The requested action has been accepted and is being processed. A RST:CPE output message will be printed showing the outcome of the request.

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5. REFERENCES

Input Message(s):

```
OP:CPE
RMV:CPE
RMV:LINE
RST:LINE
```

Output Message(s):

```
RST:CPE
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RST:CU

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a control unit (CU) be restored to standby status. If restored conditionally, a complete CU diagnostic will be run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:CU=a[:UCL|:RAW][,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print the diagnostic results of every phase. Default is the first five failures of each failing phase.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Restore unconditionally. (The default is conditional restoration).

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:CU output message. If UCL is not specified, a DGN:CU output message is also printed.

5. REFERENCES

Input Message(s):

```
DGN:CU
RMV:CU
```

Output Message(s):

```
ANALY:TLPFILE
DGN:CU
RMV:CU
```

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```
RST:CU
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)

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RST:DATALINK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the restoration of a data link to service by deletion of the specified out-of-service (OOS) status. When all OOS statuses have been deleted, the data link will be restored to service.

Up to four independent OOS conditions can exist simultaneously on a data link. Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Messages manual for a more detailed explanation of statuses that apply to data links. A data link can be identified by its type (such as, AP, DASC, and so forth) and group and relative link number or by its equipment number (LCEN, LCKEN, INEN, ILEN, or AIUEN). If the data link is busy when the request is made, it will be camped on for up to 20 minutes. If a camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message, if desired.

2. FORMAT

```
RST:DATALINK,a[,CH=b][:[c][,d][,e][,f]];
```

3. EXPLANATION OF MESSAGE

a = Valid value(s):

AIUEN=k-d[1]-e[1]-f[1]	HOBIS=g-h	OAPO=y
AP=g-h	ILEN=k-u-v-w	RAS=g-h
AQ=g-h	INEN=k-c[1]-v-w	RTRS=g-h
DASC=g-h	LCEN=k-l-m-n	XDB=g-h
EIS=s-t	LCKEN=k-l-z-a[1]-b[1]	
HOBICR=g-h	MISLNK=g-h	
HOBICV=g-h	OAPF=x	

b = Channel identifier [D (default), B1, or B2].

If this option is not specified or if the D-channel is specified, an attempt will be made to restore the D-channel and all on-demand service B-channels, but permanent packet B-channels will not be restored. If a B-channel is specified, only that B-channel will be restored to service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be restored to service even if only the D-channel or a B-channel is specified in the input request.

Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS,DSBLD).

c = Basic state. Valid value(s):

ALL = If entered, no other status fields need be specified and all existing status information (primary and pending) will be removed for the specified line(s).

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This will result in the line(s) being placed in service (IS). Care should be exercised when using this option because restoring lines that are OOS, MTCE, FE, or FAF could result in undesired effects (that is, PORTLA audit failures, and so forth).

OOS = Out-of-service (default).

d = Qualifier (choose one or omit). Valid value(s):

BLKD = Blocked. If basic state field 'c' is not specified, it will be defaulted to OOS.

CADN = Circuit administration. If basic state field 'c' is not specified, it will be defaulted to OOS.

CUTOVER = Cutover (pre-cut) inactive state. If basic state field 'c' is not specified, it will be defaulted to OOS.

DSLINIT = DSL initialization. If basic state field 'c' is not specified, it will be defaulted to OOS.

MKBUSY = Make busy. If basic state field 'c' is not specified, it will be defaulted to OOS.

MTCE = Maintenance (default). If basic state field 'c' is not specified, it will be defaulted to OOS.

PPSRV = Pre-post service. If basic state field 'c' is not specified, it will be defaulted to OOS.

TMT = Traffic management (valid only for outgoing trunks). If basic state field 'c' is not specified, it will be defaulted to OOS.

e = Operational restrictions (choose one or omit). Valid value(s):

DSBLD = Disabled (default). If qualifier field 'd' is not specified, it will be defaulted to MTCE.

DCHOOS = D-channel is OOS. If qualifier field 'd' is not specified, it will be defaulted to MTCE.

HW = High and wet. If qualifier field 'd' is not specified, it will be defaulted to MTCE.

LVL1ERR = Level 1 protocol error. If qualifier field 'd' is not specified, it will be defaulted to MTCE.

LVL2ERR = Level 2 protocol error. If qualifier field 'd' is not specified, it will be defaulted to MTCE.

LVL3ERR = Level 3 protocol error. If qualifier field 'd' is not specified, it will be defaulted to MTCE.

PLGUP = Plug-up (currently no effect). If qualifier field 'd' is not specified, it will be defaulted to MTCE.

PX = Power cross. If qualifier field 'd' is not specified, it will be defaulted to MTCE.

RAP = Recorded announcement port. If qualifier field 'd' is not specified, it will be defaulted to MTCE.

Note: If the entire port status is omitted, the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

f = Supplementary information (choose one or omit). This field is used to record the reason for removal. Valid value(s):

AML = Automatic maintenance limit.

AQ = Autoquote problem.

AUDIT = Audit detected problem.

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CAMA	= Central automatic message accounting.
CAROT	= Centralized automatic reporting on trunks.
CDI	= Control and data interface.
CKT	= Circuit.
CTTU	= Central trunk testing unit.
DFI	= Digital facility interface.
DLNORSP	= Init response not received from data link.
DYGSPUS	= Dying gasp under study.
FORPOT	= Foreign potential.
GRD	= Ground fault.
GRID	= Line unit grid.
IAA	= Ineffective attempt analysis.
ISLU	= Integrated services line unit (ISLU).
L2QLTY	= Poor level 2 transmission quality.
L2DOWN	= Level 2 is inoperable.
LINK1	= The basic rate interface transmission extension (BRITE) link one is down.
LINK2	= The BRITE link two is down.
LINK3	= The BRITE link three is down.
LINK4	= The BRITE link four is down.
LINK5	= The BRITE link five is down.
LINK6	= The BRITE link six is down.
MPOOS	= Modem pool line out of service.
MSMTCH	= Mismatch.
MTCECH	= Maintenance channel.
NR	= No response.
NRT	= No response while in test mode.
NTDACT	= Network termination (NT) is deactivated.
NTOFN	= NT off normal.
NTPWR	= NT lost power.
OPNOXL3	= OSPS position no level 3 protocol.
PCTF	= Per-call test failure.
POSNOB	= OSPS position no B-channel.
POSNRSP	= OSPS position no response.
PPM	= Periodic pulse metering.
PSU	= Packet switch unit.
REX	= Routine exercise.
RO	= Routine other.
ROTF	= Operational trouble.
SCC	= Switching control center.
SPARED	= Line involved in ISLU sparing configuration.
STKSCN	= Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).
SWEQF	= Switch equipment failure.
TEST	= In test mode.
TEST1	= Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.
TEST2	= Testing in progress at the NT or BRITE CU and the BRITE link two is down.
TEST3	= Testing in progress at the NT or BRITE CU and the BRITE link three is down.

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TEST4	= Testing in progress at the NT or BRITE CU and the BRITE link four is down.
TEST5	= Testing in progress at the NT or BRITE CU and the BRITE link five is down.
TEST6	= Testing in progress at the NT or BRITE CU and the BRITE link six is down.
TICOM	= Treated interface common circuit.
TINTF	= The T interface is down.
TRBL	= Unspecified trouble.
TRBLORG	= Origination trouble.
TREQF	= Transmission equipment failure.
TRKBD	= Trunk board.
TRKCT	= Trunk circuit.
UINTF	= The *ANSI*® standard U interface is down.

g = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Switching module (SM) number.

l = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`f`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and will be followed by a RST:DATALINK output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:STATUS
RMV:DATALINK
STP:CAMPON
```

Output Message(s):

```
REPT:CAMPON
RST:DATALINK
```

Input Appendix(es):

```
APP:RANGES
```

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RST:DCI

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Restores a dual serial channel/computer interconnect (DCI), conditionally or unconditionally to service. If restored conditionally, a DCI diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:DCI=a[[:UCL]|[:RAW][:DATA[,TLP]]];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

`UCL` = Restore unconditionally. (Default is conditional restoration).

Note: The `TLP` and `UCL` parameters should not be used together, as no testing is performed on an unconditional restore.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a RST:DCI output message.

`RL` = Retry later. The system is in overload condition.

`?D` = General syntax error in the data field, followed by the parameter position and one of the following reasons:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.

`?E` = Input error of undetermined type.

`?I` = General syntax error, followed by the parameter position and one of the following reasons:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `MISSING KEYWORD` = A required keyword is missing from the input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.

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5. REFERENCES

Input Message(s):

```
DGN:DCI
RMV:DCI
```

Output Message(s):

```
ANALY:TLPFILE
DGN:DCI
RMV:DCI
RST:DCI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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RST:DCLU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a *SLC*®96 digital carrier line unit (DCLU) be restored to service.

2. FORMAT

```
RST:DCLU=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally.

`a` = Switching module (SM) number.

`b` = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. The RST:DCLU output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:DCLU`

Input Appendix(es):

`APP:RANGES`

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RST:DCTUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a single directly connected test unit common board (DCTUCOM) circuit be restored to service.

2. FORMAT

```
RST:DCTUCOM=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally.

`a` = Switching module (SM) number.

`b` = Directly connected test unit number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:DCTUCOM output message.

5. REFERENCES

Output Message(s):

```
RST:DCTUCOM
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

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RST:DCTUPORT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a single directly connected test unit port circuit (DCTUPORT) circuit be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:DCTUPORT=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally.

`a` = Switching module number.

`b` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:DCTUPORT output message.

5. REFERENCES

Output Message(s):

`RST:DCTUPORT`

Input Appendix(es):

`APP:RANGES`

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RST:DFC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a disk file controller (DFC) be restored to service. If restored conditionally, a DFC diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:DFC=a[[:UCL][,CONT]|[:RAW][:DATA[,TLP][,CONT][,CU b]]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restores only the DFC. (The default is to restore the DFC, all the SBUSs connected to this DFC and all associated moving head disks (MHDs)).

`RAW` = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Restore unconditionally. (The default is conditional restoration).

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number of the CU helper unit (0 or 1). When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. This off-line CU is required as a helper unit when demand phase 15 is executed.
Note: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:DFC output message.

`RL` = Retry later. The system is in an overload condition.

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5. REFERENCES

Input Message(s):

```
DGN:DFC
RMV:DFC
RMV:MHD
RMV:SBUS
RST:MHD
RST:SBUS
```

Output Message(s):

```
ANALY:TLPFILE
DGN:DFC
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)
123 (DISK FILE SYSTEM ACCESS)

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RST:DFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital facility interface (DFI) be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:DFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally.
a	= Switching module number.
b	= Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by an RST:DFI output message.

5. REFERENCES

Output Message(s):

RST:DFI

Input Appendix(es):

APP:RANGES

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RST:DFIH

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) be restored to the active state.

If the restoration is conditional, diagnostics will be run. All tests must pass before the unit will be restored to the active state. If the restoration is unconditional, no testing will be performed.

2. FORMAT

```
RST:DFIH=a-b-c[,CAMP=d][,UCL];
```

3. EXPLANATION OF MESSAGE

`CAMP` = Camp on.

`UCL` = Restore unconditionally.

`a` = Switching module (SM) number.

`b` = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Maximum of minutes allowed for camp on (CAMP) time. If CAMP is not specified, camp on defaults to 3 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `CONFLICT WITH UNIT STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. An RST:DFIH output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

`RST:DFIH`

Output Message(s):

`RMV:DFIH`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

(RISLU DLTU)

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RST:DFTAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the distributing frame test access circuit (DFTAC) be restored to the active state.

2. FORMAT

```
RST:DFTAC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the restoration unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

`a` = Switching module number.

`b` = MSU number.

`c` = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Invalid SM number, MSU number, or service group number.

`PF` = Printout follows. Followed by RST:DFTAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources (such as, SM is not linked).

5. REFERENCES

Input Message(s):

```
ABT:DFTAC
RMV:DFTAC
STP:DFTAC
```

Output Message(s):

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```
RST:DFTAC
```

Input Appendix(es):

```
APP:RANGES
```

RST:DIST

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a distribute point board (DIST) in a metallic service unit be restored to service.

If restored conditionally, the diagnostic will be run, and must be ATP before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:DIST=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally.
a	= Switching module number.
b	= MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Distribute point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:DIST output message.

5. REFERENCES

Output Message(s):

RST:DIST

Input Appendix(es):

APP:RANGES

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RST:DLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a specific dual link interface (DLI) or range of DLIs be restored to service.

2. FORMAT

```
RST:DLI=a[&&b]|-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the specific DLI or range of DLIs unconditionally. Diagnostics will not be executed.
Note: SMs that are not in an operational equipage state will be skipped on a request for a range of DLIs.

`a` = Switching module (SM) number or the lower limit for a range of SM numbers.

`b` = Upper limit of a range of SM numbers. All SMs in the range must be on the same side of the ONTC.

`c` = ONTC side.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes Section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
DGN:DLI
OP:DMQ
RMV:DLI
```

Input Appendix(es):

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```
APP:CM-IM-REASON
```

Output Message(s):

```
DGN:DLI
OP:DMQ-CM
OP:DMQ-SM
RMV:DLI
RST:DLI
```

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RST:DNUSCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be restored to service.

2. FORMAT

```
RST:DNUSCC=a-b-c[,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the unit to the standby state. If this state is not specified the unit will be restored to the active state.

`UCL` = Restore unconditionally without diagnostics.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A RST:DNUSCC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:DNUSCC
STP:DNUSCC
```

Output Message(s):

```
RST:DNUSCC
```

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Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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RST:DNUSCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be restored to service.

2. FORMAT

```
RST:DNUSCD=a-b-c-d[,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

STBY	= Restore the unit to the standby state. If this state is not specified, the unit is restored to the active state.
UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. A RST:DNUSCD output message follows.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:DNUSCD
STP:DNUSCD
```

Output Message(s):

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```
RST:DNUSCD
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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RST:DNUSEOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

Requests to restore an EOC while both EOCs are in the in-service state results in the EOC being removed from and restored to service.

2. FORMAT

```
RST:DNUSEOC=a-b-c-d[,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the EOC to the standby state rather than the active state (default is active state).

`a` = Switching module (SM) number.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:DNUSEOC output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:DNUSEOC
STP:DNUSEOC
```

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Output Message(s):

```
RST:DNUSEOC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)

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RST:DNUSTMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

Requests to restore a TMC while both TMCs are in the in-service state results in the TMC being removed from and restored to service.

2. FORMAT

```
RST:DNUSTMC=a-b-c-d[,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the TMC to the standby state rather than the active state (default is the active state).

`a` = Switching module (SM) number.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:DNUSTMC output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:DNUSTMC
STP:DNUSTMC
```

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Output Message(s):

```
RST:DNUSTMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)

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RST:DS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital signal - level 1 (DS1) be restored to service.

2. FORMAT

```
RST:DS1=a-b-c-d-e-f-g[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally without first removing the DS1 circuit.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Virtual tributary - level 1.5 (VT15) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:DS1 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:DS1
STP:DS1
```

Output Message(s):

```
RST:DS1
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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RST:DS1SFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be restored to service.

WARNING: An unconditional restoration of an DS1SFAC while the DS1SFAC is out of service may preempt maintenance activity on the DS1SFAC.

2. FORMAT

```
RST:DS1SFAC=a-b-c-d-e-f-g[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual of the Input Messages manual.

`g` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.
`PF` = Printout follows. A RST:DS1SFAC output message follows.
`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
ABT:DS1SFAC
STP:DS1SFAC
```

Output Message(s):

```
RST:DS1SFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)

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RST:DSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital service circuit (DSC) be restored.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:DSC=a-b-c-d[:UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the restoration unconditionally.

`a` = Switching module number.

`b` = Digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an output message.

5. REFERENCES

Output Message(s):

```
RST:TTFCOM
RST:UCONF
RST:UTD
RST:UTG
```

Input Appendix(es):

```
APP:RANGES
```

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RST:DUI

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a direct user interface (DUI) device be restored to service. DUI is a subdevice of the DUI controller (DUIC). Restoring a DUI by using RST:DUIa! has the same effect as using RST:DUIa;UCL!

Note: The input/output processor (IOP) and the DUIC must be in service before the DUI can be restored.

2. FORMAT

```
RST:DUI=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:DUI output message.

5. REFERENCES

Input Message(s):

```
RMV:DUI
RMV:DUIC
RMV:IOP
RST:DUIC
RST:IOP
```

Output Message(s):

```
RMV:DUI
RMV:DUIC
RMV:IOP
RST:DUI
RST:DUIC
RST:IOP
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:DUIC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a direct user interface controller (DUIC) be restored to service.

If restored conditionally, a DUIC diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

Note: The input/output processor (IOP) must be in service before the DUIC can be restored.

2. FORMAT

```
RST:DUIC=a[[:UCL][,CONT]|[:RAW][:DATA[,TLP][,CONT]]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restore only the DUIC. (The default is to restore the DUIC and all associated DUIs).

`RAW` = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Restore unconditionally. (The default is conditional restoration).

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:DUIC output message.

5. REFERENCES

Input Message(s):

```
DGN:DUIC
DGN:IOP
RMV:DUIC
RMV:IOP
```

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```
RST:IOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:DUIC
DGN:IOP
RMV:DUIC
RMV:IOP
RST:DUIC
RST:IOP
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:EAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a single equipment access network (EAN) circuit be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:EAN=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally.
a	= Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:EAN output message.

5. REFERENCES

Output Message(s):

RST:EAN

Input Appendix(es):

APP:RANGES

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RST:EC1STE

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - Electrical Carrier Level 1 SONET Termination equipment facility (EC1STE) be restored to service.

WARNING: An unconditional restoration of an EC1STE while the EC1STE is out of service may preempt maintenance activity on the EC1STE.

2. FORMAT

```
RST:EC1STE=a-b-c-d[,ALL][,UCL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Restore all subtending facilities.

`UCL` = Restore unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A RST:EC1STE output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:EC1STE
STP:EC1STE
```

Output Message(s):

```
RST:EC1STE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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RST:FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests restoration of a remote switching module (RSM) facility (FAC) or a trunk FAC to service.

An RSM FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. A trunk FAC is a inter-office trunk.

If the FAC is restored conditionally, the following occurs: If the facility is out of service, the connectivity exercise must succeed before the facility will be returned to service. If facility is in service, it will be removed conditionally, and the connectivity exercise must succeed before the facility will be returned to service.

2. FORMAT

```
RST:FAC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the facility unconditionally (without connectivity exercise testing). The facility will not be restored if there is a carrier group alarm on the RDFI or CDFI.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RSM digital facilities interface (RDFI), inter-RSM communication link digital facilities interface (CDFI), or inter-office trunk digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = FAC number. The FAC number is the T1 facility number on a RDFI, CDFI, or DFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

- `NOT STARTED UNIT IN GROWTH STATE` = The unit is in a transient state, it is not available at this time.
- `SM DOES NOT EXIST` = The message syntax is valid, but the SM requested does not exist.
- `SM UNEQUIPPED` = The message syntax is valid, but the SM is unequipped.
- `UNIT DOES NOT EXIST` = The message syntax is valid, but the unit does not exist.

`PF` = Printout follows. An RST:FAC output message follows in response to the request.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RMV:FAC`

Output Message(s):

`RST:FAC`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:FPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified foundation peripheral controller (FPC) be restored to service.

Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
RST:FPC=a[,UCL][,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the unit to the standby maintenance state.

`UCL` = Restores the FPC unconditionally. No diagnostics are performed.

Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

`a` = FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message is invalid.

`PF` = Printout follows. Followed by RST:FPC message.

`RL` = Retry later. The request cannot be executed now.

5. REFERENCES

Output Message(s):

```
DGN:FPC
RST:FPC
```

Input Appendix(es):

```
APP:RANGES
```

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RST:GDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a global digital services function (GDSF) circuit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:GDSF=a-b [,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores without diagnosis.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:GDSF output message.

5. REFERENCES

Input Message(s):

RMV:GDSF

Output Message(s):

RST:GDSF

Input Appendix(es):

APP:RANGES

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RST:GDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a global digital service unit common (GDSUCOM) board be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:GDSUCOM=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally.
a	= Switching module number.
b	= Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:GDSUCOM output message.

5. REFERENCES

Output Message(s):

RST:GDSUCOM

Input Appendix(es):

APP:RANGES

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RST:GDXACC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint access (GDXACC) service group in a line unit be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:GDXACC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:GDXACC output message.

5. REFERENCES

Output Message(s):

RST:GDXACC

Input Appendix(es):

APP:RANGES

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RST:GDXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint compensator (GDXC) board in a metallic service unit (MSU) be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:GDXC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally.
a	= Switching module number.
b	= Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= MSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:GDXC output message.

5. REFERENCES

Output Message(s):

RST:GDXC

Input Appendix(es):

APP:RANGES

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RST:GDXCON

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint control (GDXCON) board in a line unit be restored to service as the active controller or to standby.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:GDXCON=a-b-c[,UCL][,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore to standby state.

`UCL` = Restore unconditionally.

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:GDXCON output message.

5. REFERENCES

Output Message(s):

`RST:GDXCON`

Input Appendix(es):

`APP:RANGES`

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RST:GQPHPIPE

Software Release: 5E16(2) and later
Command Group: MTCE
Application: 5
Type: Input

1. PURPOSE

Requests that a general quad-link packet switch protocol handler (GQPH) QPIPE be restored to service.

2. FORMAT

```
RST:GQPHPIPE=a-b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Global switching module (GSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = GQPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Quad-link packet switch (QLPS) network number, which is 0 or 1, or a range 0&&1 to restore GQPH QPIPEs on both networks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT A GSM` = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not a provisioned GSM.
- `SM UNEQUIPPED` = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not even an equipped SM.

`PF` = Printout follows. The request has been accepted. Followed by the RST GQPHPIPE output message specifying the results of the request.

`RL` = Retry later. May also include:
- `GSM NOT AVAILABLE` = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not available, because it is isolated or undergoing an initialization.

5. REFERENCES

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Output Message(s):

```
RST:GQPHPIPE
```

Input Appendix(es):

```
APP:RANGES
```

RC/V View(s):
17.24 GQPH QPIPE ASSIGNMENT

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RST:GRID

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint grid (GRID) in a line unit concentrator be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

Lines out of service for reasons other than family of equipment (FE) must be restored using the RST:LINE input message.

2. FORMAT

```
RST:GRID=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL`	= Restore unconditionally.
`a`	= Switching module number.
`b`	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
`c`	= Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF`	= Printout follows. Followed by RST:GRID output message.

5. REFERENCES

Input Message(s):

`RST:LINE`

Output Message(s):

`RST:GRID`

Input Appendix(es):

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APP:RANGES

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RST:GRIDBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be restored to the active state.

Lines that are out of service for reasons other than family of equipment (removed individually) must be restored using the RST:LINE input message.

Note: GRID diagnostics may or may not run depending on the state of the GRID. If the GRID is degraded, diagnostics will not run. If the GRID is ACT or OOS diagnostics will run on the GRID. The fabric will run on the GRID no matter what state the GRID is in.

2. FORMAT

```
RST:GRIDBD=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the unit unconditionally (without performing diagnostics). The default is to restore conditionally. If restored conditionally, the diagnostics will be run and all tests must pass before the unit will be restored to service.

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. An RST:GRIDBD output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

RST:LINE

Output Message(s):

RST:GRIDBD

Input Appendix(es):

APP:RANGES

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RST:HDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be restored to service.

2. FORMAT

```
RST:HDFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the circuit unconditionally. If circuit is out of service, it will be returned to service without diagnostic testing. If circuit is in service, it will be removed unconditionally, which will disconnect stable inter-module calls. It will then be returned to service without diagnostic testing.

`a` = Switching module number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by an RST:HDFI output message.

5. REFERENCES

Input Message(s):

`RMV:HDFI`

Output Message(s):

`RST:HDFI`

Input Appendix(es):

`APP:RANGES`

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RST:HSD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified high-speed synchronous data link (HSD) subdevice be restored to service.

Note: The input/output processor (IOP) and the high-speed synchronous data link controller (HSDC) must be in service before the HSD subdevice can be restored.

2. FORMAT

```
RST:HSD=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:HSD output message.

5. REFERENCES

Input Message(s):

```
DGN:HSDC
DGN:IOP
RMV:HSD
RMV:HSDC
RMV:IOP
RST:HSDC
RST:IOP
```

Output Message(s):

```
DGN:HSDC
DGN:IOP
RMV:HSD
RMV:HSDC
RMV:IOP
RST:HSD
RST:HSDC
RST:IOP
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:HSDC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a high-speed synchronous data link (HSD) controller (HSDC) be restored to service.

If restored conditionally, an HSDC diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

Note: The input/output processor (IOP) must be in service before the HSDC can be restored.

2. FORMAT

```
RST:HSDC=a[[:UCL][,CONT]|[:RAW][:DATA[,TLP][,CONT]]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restore only the HSDC. (The default is to restore the HSDC and all associated HSD subdevices).

`RAW` = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Restore unconditionally. (The default is conditional restoration).

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:HSDC output message.

5. REFERENCES

Input Message(s):

```
DGN:HSDC
DGN:IOP
RMV:HSDC
```

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```
RMV:IOP
RST:IOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:HSDC
DGN:IOP
RMV:HSDC
RMV:IOP
RST:HSDC
RST:IOP
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:IDCU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) service group circuit be restored to service either conditionally or unconditionally. If restored conditionally, diagnostics will run. All tests must pass before the circuit will be restored to service. If restored unconditionally, no tests will be performed.

2. FORMAT

```
RST:IDCU=a-b-c[,UCL][,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the IDCU to the standby state rather than the active state (default is the active state).

`UCL` = Unconditionally restore without running diagnostics.

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:IDCU output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IDCU
STP:IDCU
```

Output Message(s):

```
RST:IDCU
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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RST:IDCUELI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated digital circuit unit (IDCU) electrical line interface (ELI) circuit be restored to service.

2. FORMAT

```
RST:IDCUELI=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:IDCUELI output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IDCUELI
STP:IDCUELI
```

Output Message(s):

```
RST:IDCUELI
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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RST:IDCUEOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

Requests to restore an EOC while both EOCs are in the in-service state results in the EOC being removed from and restored to service.

2. FORMAT

```
RST:IDCUEOC=a-b-c-d[,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the EOC to the standby state rather than the active state (default is active state).

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:IDCUEOC output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IDCUEOC
STP:IDCUEOC
```

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Output Message(s):

```
RST:IDCUEOC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)

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RST:IDCUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be restored to service.

This input message should only be used to support the growth/degrowth of an IDCU PIDB or DPIDB circuit.

2. FORMAT

```
RST:IDCUPIDB=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PIDB or DPIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:IDCUPIDB output message follows.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IDCUPIDB
STP:IDCUPIDB
```

Output Message(s):

```
RST:IDCUPIDB
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-331 *Hardware Change Procedures*

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RST:IDCUTMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

Requests to restore a TMC while both TMCs are in the in-service state results in the TMC being removed from and restored to service.

2. FORMAT

```
RST:IDCUTMC=a-b-c-d[,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the TMC to the standby state rather than the active state (default is the active state).

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:IDCUTMC output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IDCUTMC
STP:IDCUTMC
```

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Output Message(s):

```
RST:IDCUTMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)

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RST:IFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be restored to service.

WARNING: The use of this input message with the SCREEN option could result in the degradation of an IDCU facility (IFAC), not necessarily the one indicated in the input message. It could affect a totally unrelated IFAC circuit. This option is used strictly by the page pokes on the MCC display terminal.

2. FORMAT

```
RST:IFAC=a-b-c[,SCREEN=d][,UCL];
```

3. EXPLANATION OF MESSAGE

`SCREEN` = Used by MCC display poke to determine the IFACs being displayed on the MCC page.

`UCL` = Unconditionally execute the restoration.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Note: The 5th IFAC on a SLC5 RT must be designated as a protection line (using RC/V) before it is restored. If it is not, calls to the RT may fail.

`d` = Remote terminal (RT) number.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:IFAC output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
ABT:IFAC
STP:IFAC
```

Output Message(s):

```
RST:IFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)

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RST:IOP

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an input/output processor (IOP) be restored to service.

If restored conditionally, an IOP diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:IOP=a[[:UCL][,CONT]|[:RAW][:DATA[,TLP][,CONT][,CU b]]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restore only the IOP. (The default is to restore the IOP and all associated peripheral controllers (for example, the teletypewriter controller, magnetic tape controller, etc.).)

`RAW` = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Restore unconditionally. (Default is conditional restoration).

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Specified helper unit, required for some diagnostic phases. An entry in the data field other than a keyword or keyword parameter is the specified helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

Note: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:IOP output message.

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5. REFERENCES

Input Message(s):

```
DGN:IOP
RMV:IOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:IOP
RMV:IOP
RST:IOP
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)

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RST:ISLUCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit common controller (ISLUCC) be restored to service.

2. FORMAT

```
RST:ISLUCC=a-b-c[,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the unit to the standby state. If this state is not specified the unit will be restored to the active state.

`UCL` = Restore unconditionally without diagnostics.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. An RST ISLUCC output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:ISLUCC`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

Copyright ©2007 Lucent Technologies

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

Copyright ©2007 Lucent Technologies

RST:ISLUCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit common data (ISLUCD) be restored to service.

2. FORMAT

```
RST:ISLUCD=a-b-c[,CAMPON=d][,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the unit to the standby state. If this state is not specified the unit will be restored to the active state.

`UCL` = Restore unconditionally without diagnostics.

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Camp-on time in minutes. If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. An RST ISLUCD output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:ISLUCD`

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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RST:ISLUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit high level service circuit (ISLUHLSC) be restored to service.

If restored conditionally, the diagnostics will be run. All tests must pass before the unit will be restored to service. If restored unconditionally no tests will be performed.

2. FORMAT

```
RST:ISLUHLSC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally.
a	= Switching module (SM) number.
b	= ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message is valid but the request conflicts with the current status.
PF	= Printout follows. The RST:ISLUHLSC output message will follow.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLUHLSC

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
171x (ISLU-Z)

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RST:ISLULBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line board (ISLULBD) be restored to service.

2. FORMAT

```
RST:ISLULBD=a-b-c-d[,CAMPON=e][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e	= Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. A RST ISLULBD output message will follow.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLULBD

Input Appendix(es):

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APP:RANGES

Copyright ©2007 Lucent Technologies

RST:ISLULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line card (ISLULC) be restored to service.

2. FORMAT

```
RST:ISLULC=a-b-c-d[,CAMPON=e][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number.
b	= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e	= Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. An RST ISLULC output message will follow.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLULC

Input Appendix(es):

APP:RANGES

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MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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RST:ISLULCKT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line circuit (ISLULCKT) be restored to service.

2. FORMAT

```
RST:ISLULCKT=a-b-c-d-e[,CAMPON=f][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally without diagnostics.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. An RST ISLULCKT output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:ISLULCKT`

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Input Appendix(es):

APP:RANGES

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RST:ISLULG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line group (ISLULG) be restored to service.

2. FORMAT

```
RST:ISLULG=a-b-c[,CAMPON=d][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number.
b	= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. A RST:ISLULG output message will follow.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLULG

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

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170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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RST:ISLULGC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line group controller (ISLULGC) be restored to service.

2. FORMAT

```
RST:ISLULGC=a-b-c[,CAMPON=d][,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number.
b	= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. An RST:ISLULGC output message will follow.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLULGC

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

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170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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RST:ISLUMAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit metallic access network (ISLUMAN) be restored to service.

If restored conditionally, the diagnostics will be run. All tests must pass before the unit will be restored to service. If restored unconditionally no tests will be performed.

2. FORMAT

```
RST:ISLUMAN=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally.
a	= Switching module (SM) number.
b	= ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message is valid but the request conflicts with the current status.
PF	= Printout follows. The RST:ISLUMAN output message will follow.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLUMAN

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

171x (ISLU-Z)
170x (ISLU NETWORK)

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RST:ISLUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit peripheral interface data bus (ISLUPIDB) pair be restored to service.

Note: Restoring an unconnected PIDB cable could cause PIDB PARITY errors by the ISLU CD. The user should diagnose the ISLU CD before restoring the ISLUPIDB.

2. FORMAT

```
RST:ISLUPIDB=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Peripheral interface data bus (PIDB) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Output message RST:ISLUPIDB will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:ISLUPIDB
```

Output Message(s):

```
RMV:ISLUPIDB
RST:ISLUPIDB
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:ISLURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit ringing generator (ISLURG) be restored to service.

If restored conditionally, the diagnostics will be run. All tests must pass before the unit will be restored to service. If restored unconditionally no tests will be performed.

2. FORMAT

```
RST:ISLURG=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally.

`a` = Switching module (SM) number.

`b` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU service group of RG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. The RST:ISLURG output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:ISLURG`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

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170x (ISLU NETWORK)
171x (ISLU-Z)

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RST:ISMNAIL

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Restores an inter-SM (switching module) nailup (ISMNAIL), which is used to support packet transport between two SMs.

2. FORMAT

```
RST:ISMNAIL,DLT=a-b,MATEDLT=c-d[,FRC];
```

3. EXPLANATION OF MESSAGE

`FRC` = Restoration will be attempted regardless of current status of ISMNAIL.

`a` = SM number (may be the SM associated with either end of the ISMNAIL).

`b` = Data link terminal (DLT) number (1-160) associated with the SM.

`c` = Mate SM number (the other SM associated with ISMNAIL).

`d` = DLT number (1-160) associated with the mate SM.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM ## NOT IN THE ISM NETWORK` = The request has been denied. Either the source or the mate SM or both have no ISMNAILs associated with it.
- `SAME SM AND MATESM SPECIFIED` = The source and mate SM numbers are the same. This is an invalid condition.

`PF` = Printout follows. The request has been accepted. An RST:ISMNAIL output message follows.

5. REFERENCES

Output Message(s):

`RST:ISMNAIL`

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RST:ISTF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services test function (ISTF) unit be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:ISTF=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally.

`a` = Switching module (SM) number.

`b` = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by an RST:ISTF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Output Message(s):

`RST:ISTF`

Input Appendix(es):

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APP:RANGES

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RST:IWGFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an inter-working gateway facility (IWGFAC) be restored to service.

2. FORMAT

```
RST:IWGFAC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Restore all the inter-working gateway facilites.

`UCL` = Unconditionally execute the restore.

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:IWGFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IWGFAC
STP:IWGFAC
RMV:IWGFAC
```

Output Message(s):

```
RST:IWGFAC
```

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Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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RST:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an inter-working gateway link interface (IWGLI) be restored to service.

2. FORMAT

```
RST:IWGLI=a-b-c-d[,STBY]~[,UCL];
```

3. EXPLANATION OF MESSAGE

STBY	= Restore the unit to the standby state. If this state is not specified, the unit is restored to the active state.
UCL	= Unconditionally execute the restore.
a	= Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Inter-working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message is valid but the request conflicts with current status.
PF	= Printout follows. Followed by the RST:IWGLI output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IWGLI
STP:IWGLI
RMV:IWGLI
```

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Output Message(s):

```
RST:IWGLI
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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RST:IWUFAC

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an inter-working unit facility (IWUFAC) be restored to service.

2. FORMAT

```
RST:IWUFAC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Restore all the inter-working unit facilites.

`UCL` = Unconditionally execute the restore.

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:IWUFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IWUFAC
STP:IWUFAC
RMV:IWUFAC
```

Output Message(s):

```
RST:IWUFAC
```

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Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1340,y (IWU)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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RST:LDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a local digital service function (LDSF) circuit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:LDSF=a-b [,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores without diagnosis.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:LDSF output message.

5. REFERENCES

Input Message(s):

RMV:LDSF

Output Message(s):

RST:LDSF

Input Appendix(es):

APP:RANGES

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RST:LDSU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a local digital service unit- model 2 (LDSU2) board to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:LDSU=a-b-c [,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores without diagnosis.
a	= Switching module (SM) number.
b	= Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:LDSU output message.

5. REFERENCES

Output Message(s):

RST:LDSU

Input Appendix(es):

APP:RANGES

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RST:LDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a local digital service unit common (LDSUCOM) board to service.

2. FORMAT

```
RST:LDSUCOM=a-b-c [,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module number.

`b` = Local digital service unit number (0).

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Followed by RST:LDSUCOM output message.

5. REFERENCES

Output Message(s):

`RST:LDSUCOM`

Input Appendix(es):

`APP:RANGES`

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RST:LINE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a line be restored to service by deleting the specified out-of-service (OOS) condition. A line may have from one to four OOS statuses. If no other OOS status is pending after the OOS status is deleted, the line is placed back in service and idled. If another OOS status was pending, the line is treated according to the pending OOS status.

2. FORMAT

```
[1]    RST:LINE,{DN=a|PKTDN=a}[-s][,CH=b][,UCL][:[w][,x][,y][,z]];

[2]    RST:LINE,j[1][,CH=b][,UCL][:[w][,x][,y][,z]];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`UCL` = Restore the line unconditionally. No operational test will be run (default).

`a` = Telephone number of the line.

`b` = Channel identifier. Used only for digital subscriber lines (DSLs). Valid value(s):
`B1`
`B2`
`D` (default)

If this option is not specified or if the D-channel is specified, an attempt will be made to restore the D-channel and all on-demand service B-channels, but permanent packet B-channels will not be restored. If a B-channel is specified, only that B-channel will be restored to service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be restored to service even if only the D-channel or a B-channel is specified in the input request.

A modem pool member consists of an analog line and a DSL. They are identified by the same multi-line hunt group (MLHG) member number. For format 4, if channel is not specified and the MLHG specified is a modem pool group, by default, the analog side is selected for restoration. To restore DSL side of the member the channel should be set explicitly to D. Whenever the DSL (multi-point DSL) is restored the OOS MTC FE MPOOS AUTO status on corresponding analog line(s) of the modem pool member is deleted.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Switch board number (0, 1 or ALL). If ALL is specified, all lines on the specified grid are restored.

`k` = Switch number. This variable is not required if the switch board number (variable '`j`') equals ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Level number. This variable is not required if the switch board number (variable '`j`') equals ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = RT line number (1-96 or ALL). If ALL is specified, all 96 possible lines on the RT will be restored.

`s` = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be restored. For LTSB a member number of 1 will restore the lead line and a member number of 2 will restore the associate line. If no member number is specified for 1-DN LTSB the lead line and the associate line will both be restored. If no member number is specified for 2-DN LTSB the line associated with the DN entered will be restored.

`t` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801

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number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Variables 'w' through 'z' give the line status currently in effect on the line that is to be deleted; therefore, removing that restriction. Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS,DSBLD).

w = Basic state (choose one or omit). Valid value(s):

- ALL = If entered, no other status fields need be specified and all existing status information (primary and pending) will be removed for the specified line(s). This will result in the line(s) being placed in-service (IS). Care should be exercised when using this option because restoring lines that are OOS MTCE FE or FAF could result in undesired effects (that is, PORTLA audit failures and so forth).
- OOS = Out-of-service (default).

x = Qualifier (choose one or omit). Valid value(s):

- BLKD = Blocked. If variable 'w' is not specified, it will be defaulted to OOS.
- CADN = Circuit administration. If variable 'w' is not specified, it will be defaulted to OOS.
- CUTOVER = Pre-cut line. If variable 'w' is not specified, it will be defaulted to OOS.
- DSLINIT = DSL initialization. If variable 'w' is not specified, it will be defaulted to OOS.
- MKBUSY = Make busy. If variable 'w' is not specified, it will be defaulted to OOS.
- MTCE = Maintenance (default). If variable 'w' is not specified, it will be defaulted to OOS.
- PPSRV = Pre/post service. If variable 'w' is not specified, it will be defaulted to OOS.
- TMT = Traffic management (valid only for outgoing trunks). If variable 'w' is not specified, it will be defaulted to OOS.

y = Operational restrictions (choose one or omit). Valid value(s):

- DCHOOS = D-channel is out-of-service. If variable 'x' is not specified, it will be defaulted to MTCE.
- DSBLD = Disabled (default). If variable 'x' is not specified, it will be defaulted to MTCE.
- HW = High and wet. If variable 'x' is not specified, it will be defaulted to MTCE.
- LVL1ERR = Level 1 error. If variable 'x' is not specified, it will be defaulted to MTCE.
- LVL2ERR = Level 2 error. If variable 'x' is not specified, it will be defaulted to MTCE.
- LVL3ERR = Level 3 error. If variable 'x' is not specified, it will be defaulted to MTCE.
- PLGUP = Plug-up. If variable 'x' is not specified, it will be defaulted to MTCE.
- PX = Power cross. If variable 'x' is not specified, it will be defaulted to MTCE.
- RAP = Recorded announcement port. If variable 'x' is not specified, it will be defaulted to MTCE.

If the entire port status is omitted the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated

will be assumed.

z = Supplementary information (choose one or omit). Valid value(s):

- AML = Automatic maintenance limit.
- AUDIT = Audit-detected problem.
- CAMA = Central automatic message accounting.
- CAROT = Centralized automatic reporting on trunks.
- CDI = Control and data interface.
- CKT = General circuit.
- CTTU = Central trunk testing unit.
- DFI = Digital facility interface.
- DLNORSP = DAS/C link no response.
- DYGSPUS = Dying gasp message from *ANSI*®-U DSL.
- FORPOT = Foreign potential.
- GRD = Ground fault.
- GRID = Line unit grid bad.
- IAA = Ineffective attempt analysis.
- ISLU = Integrated services line unit.
- LINK1 = The basic rate interface transmission extension (BRITE) link one is down.
- LINK2 = The BRITE link two is down.
- LINK3 = The BRITE link three is down.
- LINK4 = The BRITE link four is down.
- LINK5 = The BRITE link five is down.
- LINK6 = The BRITE link six is down.
- MPP = Modem-pool problem.
- MSMTCH = Mismatch.
- MTCECH = Maintenance channel.
- NR = No response.
- NRT = No response while in test mode.
- NTDACT = Network termination (NT) is deactivated.
- NTOFN = NT off normal.
- NTPWR = NT lost power.
- OPNOXL3 = OSPS position no level 3 protocol.
- PCTF = Per-call test failure.
- POSNOB = OSPS position no B-channel.
- POSNRSP = OSPS position no response.
- PPM = Periodic pulse metering unit.
- PSU = Packet switch unit.
- REX = Routine exercise.
- RO = Routine/other.
- ROTF = Operational trouble (that is, scanner stuck off-hook).
- SCC = Removed by Switching Control Center.
- SPARED = Line is involved in an ISLU sparing configuration.
- STKSCN = Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).
- SWEQF = Switch equipment failure.
- TEST = In test mode.
- TEST1 = Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.

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`TEST2` = Testing in progress at the NT or BRITE CU and the BRITE Link two is down.

`TEST3` = Testing in progress at the NT or BRITE CU and the BRITE Link three is down.

`TEST4` = Testing in progress at the NT or BRITE CU and the BRITE Link four is down.

`TEST5` = Testing in progress at the NT or BRITE CU and the BRITE Link five is down.

`TEST6` = Testing in progress at the NT or BRITE CU and the BRITE Link six is down.

`TICOM` = Treated interface unit common circuit.

`TINTF` = The T interface is down.

`TRBL` = Unspecified trouble.

`TRBLORG` = Origination trouble.

`TREQF` = Transmission equipment failure.

`TRKBD` = Trunk board.

`TRKCT` = Trunk circuit.

`UINTF` = The *ANSI*® standard U-interface is down.

`a`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Equipment number: Valid value(s):

`ILEN=c-t-u-v`

`LCEN=c-d-e-f`

`LCKEN=c-d-a`[1]`-b`[1]`-c`[1]

`LEN=c-h-i`

`MLHG=m-n`

SLEN=c-p-q-r
AIUEN=c-d[1]-e[1]-f[1]
INEN=c-g[1]-u-v
VANA=c-h[1]
VBRI=c-i[1]

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RST:LINE output message.

If the line to be restored is controlled by another request or activity, the port will be camped on (refer to the REPT:CAMPON output message). The camp-on can be stopped by using the STP:CAMPON input message, which aborts the line restoration.

RL = Retry later. Request denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:ST-LI
STP:CAMPON

Output Message(s):

REPT:CAMPON
RST:LINE

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 *Corrective Maintenance*

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RST:LN

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified link node (LN) be restored to service either conditionally or unconditionally.

WARNING: This input message contains time sensitive elements. Maintenance input request administrator (MIRA) should be checked for LN maintenance activity (OP:DMQ) before using this input message. If there is any LN maintenance activity (active or queued) it should be allowed to complete before using this input message.

2. FORMAT

```
RST:LNa=b[[:RAW[:TLP]]|[,UCL]];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print the diagnostic results of every phase. The default is to print the results of the first five failures of each failing phase.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. The TLP generates a list of suspected faulty equipment.

`UCL` = Restore the node unconditionally. The default is a conditional restoration.

If the LN major state is not out-of-service (OOS), the restoration is stopped. If the LN major state is OOS, an attempt is first made to include the LN into the active ring. If the inclusion fails, the restoration is stopped. If the inclusion succeeds, the LN is restored to service (pumped with operational code, placed into execution, and its major state changed to active [ACT]).

Note: The UCL parameter should not be used with any other parameter. If it is used with another parameter then the other parameter will be ignored.

`a` = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

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`PF` = Printout follows. The system action is different for conditional and unconditional restoration requests as described in 'UCL'.

5. REFERENCES

Input Message(s):

```
DGN:LN
FRMV:LN
INIT:LN
OP:DMQ
RMV:LN
```

Output Message(s):

```
DGN:LN
FRMV:LN
INIT:LN
OP:DMQ
REPT:IUN-RST
RMV:LN
RST:LN
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI RING STATUS)
1520 (RING NODE STATUS)

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RST:LUCHAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a single line unit channel (LUCHAN) circuit to service.

2. FORMAT

```
RST:LUCHAN=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Followed by RST:LUCHAN output message.

5. REFERENCES

Output Message(s):

`RST:LUCHAN`

Input Appendix(es):

`APP:RANGES`

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RST:LUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a line unit channel board (LUCHBD) to service.

2. FORMAT

```
RST:LUCHBD=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run on all line unit channel (LUCHAN) circuits on the board. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Followed by RST:LUCHBD output message.

5. REFERENCES

Output Message(s):

`RST:LUCHBD`

Input Appendix(es):

`APP:RANGES`

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RST:LUCOMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a line unit common control (LUCOMC) to service.

2. FORMAT

```
RST:LUCOMC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL	= Unconditionally restores without diagnosis.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Followed by RST:LUCOMC output message.

5. REFERENCES

Output Message(s):

RST:LUCOMC

Input Appendix(es):

APP:RANGES

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RST:LUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a line unit high service circuit (LUHLSC) to service.

2. FORMAT

```
RST:LUHLSC=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL	= Unconditionally restores without diagnosis.
a	= Switching module number.
b	= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Followed by RST:LUHLSC output message.

5. REFERENCES

Output Message(s):

RST:LUHLSC

Input Appendix(es):

APP:RANGES

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RST:MA

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic access (MA) board in a metallic service unit (MSU) be conditionally or unconditionally restored to service.

2. FORMAT

```
RST:MA=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module number.

`b` = Metallic service unit number.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Followed by RST:MA output message.

5. REFERENCES

Output Message(s):

`RST:MA`

Input Appendix(es):

`APP:RANGES`

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RST:MAB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the metallic access bus (MAB) be restored to the active state conditionally or unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:MAB=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores without diagnostics.
a	= Switching module number.
b	= Unit number.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= The request was accepted. Followed by an RST:MAB output message.

5. REFERENCES

Output Message(s):

RST:MAB

Input Appendix(es):

APP:RANGES

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RST:MCTSI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a module control/time slot interchange unit (MCTSI) be conditionally or unconditionally restored to the active state.

If restoration is conditional, the diagnostic will be run. All tests must be passed before the unit is restored to service. If restoration is unconditional, no testing is performed.

2. FORMAT

```
RST:MCTSI=a[&&b]-c[,UCL][,STBY][,RETRO];
```

3. EXPLANATION OF MESSAGE

`RETRO`	= Restore conditionally, but run phase 3 of diagnostic. UCL overrides RETRO if both are specified.
`STBY`	= Restore to standby (instead of active) state.
`UCL`	= Unconditionally restore without diagnosis.
`a`	= Switching module (SM) number or lower limit for a range of SM numbers.
`b`	= Upper limit of a range of SM numbers.
`c`	= Module controller unit number (0 or 1).

4. SYSTEM RESPONSE

`PF`	= Printout follows. An RST:MCTSI output message will be printed.

5. REFERENCES

Output Message(s):

`RST:MCTSI`

MCC Display Page(s):

1800,x (INH & RCVY CNTL)

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RST:MD

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Restores the intra-global switching module (GSM) common channel signal (CCS) message delivery (MD) path. Message delivery communication is possible on completion of the request.

Note: This input message is applicable only for PSU platform CCS7.

2. FORMAT

```
RST:MD,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = GSM number. The switching module (SM) specified must be a CCS GSM.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID MD PATH` = The SM specified is not a GSM.
- `NO GLOBAL SM` = No GSMs are provisioned in the office.
- `SM NOT EQUIPPED` = SM specified in the input message does not exist in the office.

`PF` = Printout follows. Followed by the RST:MD output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

Output Message(s):

`RST:MD`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

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1530 (GLOBAL SM MESSAGE DELIVERY STATUS)

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RST:MELNK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a single MCTSI-based ethernet link (MELNK) or all MELNKs on a switching module (SM) be restored to service.

2. FORMAT

```
RST:MELNK{=a-b-c|,ALL,SM=a}[,UCL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Restore all MELNKs that are in an out of service state.

`UCL` = Restore unconditionally.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MCTSI-based ethernet pipe (MEPIPE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = MELNK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Valid qualifiers are:
- `NO SUCH SM` = Input command specified an SM that does not exist.
- `SM UNEQ` = Input command specified an SM that is unequipped
- `UNIT UNEQ` = Either "ALL" is specified and the specified SM has no equipped MELNKs, or the specified individual MELNK is not equipped.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. Optional additional qualifiers are:
- `SM ISOLATED` = Cannot communicate with requested SM.

`PF` = Printout follows. A RST:MELNK output message will follow in response to the request.

5. REFERENCES

Output Message(s):

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```
RST:MELNK
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1204 (MELNK STATUS)

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RST:MHD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Conditionally or unconditionally restores a moving head disk (MHD) to service. If restored conditionally, an MHD diagnostic is run, and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The disk file controller (DFC) must be in service before the MHD can be restored.

WARNING: This message should not be executed when AM or CM REX is executing. If the MHD must be restored, halt any AM or CM REX activity before restoring the MHD.

2. FORMAT

```
RST:MHD=a [[:UCL][,CONT] | [:RAW][:DATA[,TLP][,CONT]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Unconditional restoration. The default is conditional restoration.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:MHD output message.

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5. REFERENCES

Input Message(s):

```
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RST:DFC
```

Output Message(s):

```
ANALY:TLPFILE
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RST:DFC
RST:MHD
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR

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RST:MMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a message module processor (MMP) be restored to the active state.

Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
RST:MMP=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL = Restore the MMP unconditionally. No diagnostics are performed.

Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by an RST:MMP output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Output Message(s):

DGN:MMP
RST:MMP

Input Appendix(es):

APP:RANGES

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Other Manual(s):
235-105-250 *System Recovery Procedures*

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RST:MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a message switch control unit (MSCU) to the active state.

Note 1: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

Note 2: For offices having CM3 vintage communication modules, MSCU diagnostics no longer exist as part of an MSCU conditional restore. A MSGS conditional restore can be executed which will run diagnostics on the MSCU and all MSGS subunits.

2. FORMAT

```
RST:MSCU=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally restores the MSCU. No diagnostics are performed. If the peripheral controllers subordinate to the MSCU are OOS AUTO/MAN FE, they will also be restored UCL. Otherwise, the subunits will be left in their current state.

`a` = Message switch number (0 or 1).

4. SYSTEM RESPONSE

`NG` = The message is invalid.

`PF` = Printout follows.

`RL` = The request cannot be executed now; try again later.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
RST:MSGS
```

Output Message(s):

```
OP:CFGSTAT
RST:MSCU
```

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RST:MSGS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Restores a message switch (MSGS) to an in service condition.

2. FORMAT

```
RST:MSGS=a[,{UCL|NIS}];
```

3. EXPLANATION OF MESSAGE

`NIS` = Conditionally restores only the portions of the MSGS complex that are not in service. If this option is not used all equipped parts of the MSGS will be restored.

`UCL` = Unconditionally restores the specified MSGS. No diagnostics are performed.

`a` = MSGS side (0 or 1).

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
DGN:MSGS
RMV:MSGS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
DGN:MSGS
```

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```
RMV:MSGS
RST:MSGS
```

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RST:MSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic service unit common (MSUCOM) board be conditionally or unconditionally restored to service.

2. FORMAT

```
RST:MSUCOM=a-b-c [,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL	= Unconditionally restores without diagnosis.
a	= Switching module number.
b	= Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Followed by RST:MSUCOM output message.

5. REFERENCES

Output Message(s):

RST:MSUCOM

Input Appendix(es):

APP:RANGES

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RST:MT

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Restores the specified magnetic tape (MT) device to service.

Note: For MT residing under the disk file controller (DFC), the DFC and small computer system interface (SCSI) bus (SBUS) must be in service before the MT can be restored.

Note: For MT residing under the input/output processor (IOP), and magnetic tape controller (MTC) must be in service before the MT can be restored.

2. FORMAT

```
RST:MT=a[:UCL|:RAW|:DATA][,TLP];
```

3. EXPLANATION OF MESSAGE

`RAW` = Prints the diagnostic results of every phase. Default is the first five failures of each failing phase. Not available for IOP MT units.
Note: The RAW and UCL parameters cannot be used together, because no testing is performed on an unconditional restore.

`TLP` = Executes the trouble location procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment. Not available for IOP MT units.

`UCL` = Unconditional restore. Default is conditional restore.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:MT output message.

`RL` = Retry Later. The system is in overload condition.

`?D` = General syntax error in the data field, followed by the parameter position and:
- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.

`?E` = Input error of undetermined type.

`?I` = General syntax error, followed by the parameter position and:

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- `EXTRA KEYWORD` = Duplicate or extraneous keywords were input.
- `INVALID KEYWORD` = The keyword in the stated parameter position is not a valid keyword.
- `MISSING KEYWORD` = A required keyword is missing from the input.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:MTC
RMV:IOP
RMV:MT
RMV:MTC
RST:IOP
RST:MTC
```

Output Message(s):

```
DGN:IOP
DGN:MTC
RMV:IOP
RMV:MT
RMV:MTC
RST:IOP
RST:MT
RST:MTC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:MTB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

a metallic access test bus (MTB) in a metallic access board (MA) be conditionally or unconditionally restored to service.

2. FORMAT

```
RST:MTB=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module number.

`b` = Metallic service unit number.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Followed by RST:MTB output message.

5. REFERENCES

Output Message(s):

`RST:MTB`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1135/1145 (MSU MA STATUS)

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RST:MTC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a magnetic tape controller (MTC) to service. If restored conditionally, an MTC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The input/output processor (IOP) must be in service before the MTC can be restored.

2. FORMAT

```
RST:MTC=a [[:UCL][, CONT] | [:RAW][:DATA[,TLP][,CONT][,MT=b]]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restores only the MTC. The default is to restore the MTC and all associated magnetic tape devices.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

`UCL` = Unconditional restoration. The default is conditional restoration.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Specified helper unit, required for some diagnostic phases. An entry in the data field other than a keyword or keyword parameter is the specified helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:MTC output message.

5. REFERENCES

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Input Message(s):

```
DGN:IOP
DGN:MTC
RMV:IOP
RMV:MTC
RST:IOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:IOP
DGN:MTC
RMV:IOP
RMV:MTC
RST:IOP
RST:MTC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:MTIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores the metallic test interconnect bus (MTIB) to the active state conditionally or unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:MTIB=a[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores without diagnostics.
a	= MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= The request has been denied. The message form is valid, but the request conflicts with current status.
PF	= The request was accepted. Followed by an RST:MTIB output message.
RL	= Repeat later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:MTIB

Input Appendix(es):

APP:RANGES

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RST:MTIBAX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores the metallic test interconnect bus access (MTIBAX) to the active state conditionally or unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:MTIBAX=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores without diagnostics.
a	= Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= The request was accepted. Followed by an RST:MTIBAX output message.

5. REFERENCES

Output Message(s):

RST:MTIBAX

Input Appendix(es):

APP:RANGES

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RST:MTTY

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Restores the specified maintenance teletypewriter (MTTY) to service.

Note: The input/output processor (IOP) and maintenance teletypewriter controller (MTTYC) must be in service before the MTTY can be restored.

2. FORMAT

```
RST:MTTY=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:MTTY output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTYC
```

Output Message(s):

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTY
RST:MTTYC
```

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Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)

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RST:MTTYC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Restores conditionally or unconditionally a maintenance teletypewriter controller (MTTYC) to service. If restored conditionally, an MTTYC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The input/output processor (IOP) must be in service before the MTTYC can be restored.

2. FORMAT

```
RST:MTTYC=a [[:UCL][,CONT] | [:RAW][[:DATA][,TLP][,CONT]]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restores only the MTTYC. The default is to restore the MTTYC and all associated maintenance teletypewriters, receive-only printers (ROP), and Switch Control Center (SCC) data link subdevices.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Unconditional restoration. The default is conditional restoration.

`a` = Member number (0-255).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:MTTYC output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:MTTYC
RMV:IOP
```

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```
RMV:MTTYC
RST:IOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTYC
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR)

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RST:NCOSC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Restores a network clock model 2 (NC2) or model 3 (NC3) oscillator (NCOSC) to service. There are no diagnostics run on the NCOSC unit.

Note: For NC2 it was that under normal conditions an oscillator may only be restored to service if it has been powered up for a minimum of one hour for a medium-stability (TN1284/TN1286) oscillator or 16 hours for a high-stability oscillator (TN1283/TN1285).

For NC3 it's a high-stability oscillator (MMB100) with a warmup time of 1.5 hours. The oscillators will not restore to STBY when the ONTCs are duplex (both in-service), since the ACT/STBY configuration only occurs when the ONTCs are simplex.

2. FORMAT

```
RST:NCOSC=a[,STATE=STBY];
```

3. EXPLANATION OF MESSAGE

`a` = Unit side (0 or 1).

`STBY` = Restore to a standby state.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

`OK` = The request was accepted and completed.

`PF` = Printout follows. An RST:NCOSC output message will follow in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:NCOSC
SET:FRC-NCOSC
```

Output Message(s):

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```
REPT:NC-NWP
RST:NCOSC
```

MCC Display Page(s):

1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)

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RST:NCREF

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a network clock reference (NCREF) be restored to service. There are no diagnostics run on NCREF units. External references will be restored to service on both clock sides.

2. FORMAT

```
RST:NCREF,{XC=a|b[,TYPE=c][,UCL]};
```

3. EXPLANATION OF MESSAGE

`XC` = Cross-couple reference. This is only legal for NC1 and NC2.

`a` = Network clock side.

`b` = Network clock reference (NCREF).

NC1	NC2 or NC3
`PRIM` Primary reference. `SEC` Secondary reference.	`REFn` Reference number, n=1-8.

`c` = Reference Type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. The values are:

- `10M` = 10 MHz analog clock reference.
- `2M` = 2.048 MHz analog clock reference.
- `CC` = 64K Composite clock reference.
- `DGTL` = Digital clock reference.

`UCL` = Applies only to REF1-REF8. Must be used to restore the last active reference.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request conflicts with the current system or equipment status.

`PF` = Printout follows. The request has been received. Followed by a RST:NCREF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
RMV:NCREF
```

Output Message(s):

```
RST:NCREF
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)

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RST:NLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a specific network link interface (NLI) be restored to service.

Note: Automatic quad-link packet switch (QLPS) network switches may occur if the primary NLI is reconfigured/QLPSs are equipped.

2. FORMAT

```
RST:NLI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the specific NLI unconditionally. Diagnostics are not executed.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes Section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A RST:NLI output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:NLI
OP:DMQ-CM-SM
RMV:NLI
```

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Output Message(s):

```
DGN:NLI
OP:DMQ-CM
OP:DMQ-SM
RST:NLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)

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RST:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an optical carrier - level 3 (OC3) be restored to service. By default, the circuit is restored to stand-by state from simplex failure, and to active state from duplex failure.

2. FORMAT

```
RST:OC3=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally without first removing the OC3 circuit.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:OC3 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:OC3
STP:OC3
```

Output Message(s):

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```
RST:OC3
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3 STATUS

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RST:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an optical carrier - level 3 concatenated (OC3C) facility be restored to service. By default, the facility is restored to stand-by state from simplex failure, and to active state from duplex failure.

2. FORMAT

```
RST:OC3C=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally without first removing the OC3C facility.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:OC3C output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:OC3C
STP:OC3C
```

Output Message(s):

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```
RST:OC3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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RST:OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an optical facility interface (OFI) be restored to service. If the OFI is restored conditionally, the diagnostic runs and all tests must pass before service is restored to the unit. If the OFI is restored unconditionally, no testing is performed.

2. FORMAT

```
RST:OFI=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally without diagnostics and without first removing the OFI.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:OFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:OFI
STP:OFI
```

Output Message(s):

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```
RST:OFI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1490 OIU STATUS

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RST:ONTC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a restore of the office network and timing complex (ONTC) to an in service condition. The ONTC complex consists of the ONTC common units (ONTCCOM) and dual link interfaces (DLIs). The ONTCCOM consists of the link interface (LI) (CM1 hardware only), message interface (MI), network clock (NC), and time multiplexed switch (TMS).

Format 1 calls for a conditional restore of the ONTC, with both a helper unit and the desired state of that side (active major or active minor) optionally specified. Format 2 calls for a conditional restore of the subunits of the ONTC that are currently not in service (NIS), with a helper unit optionally specified. Format 3 calls for an unconditional restore of the ONTC, with the desired state of that side (active major or active minor) optionally specified.

2. FORMAT

```
[1]    RST:ONTC=a [:HELPER=b][,{MAJOR|MINOR}];

[2]    RST:ONTC=a,NIS [:HELPER=b];

[3]    RST:ONTC=a,UCL [,{MAJOR|MINOR}];
```

3. EXPLANATION OF MESSAGE

Note: If the MAJOR or MINOR option is not specified, the optimum side of the ONTC will become ACT MAJOR.

The optimum ONTC side is determined by examining the number of switching modules (SMs) isolated from call processing as the first criterion, interconnectivity of SMs for call processing as the second criterion, and call setup capacity as the third criterion.

First the SMs are checked, to determine which side has the most SMs available. If neither side is greater the second criterion is invoked to determine which side has the least SMs isolated from call processing. If both sides are equal the third criterion is invoked. If call setup capacity is the same on both sides no clear cut side has been established as the best; therefore the requested side is made ACT MAJOR. Otherwise, the optimal algorithm shows that the other side is better, and that side is made ACT MAJOR.

`NIS` = Conditionally restore only the portions of the ONTC complex that are NOT in service. If this option is not used all equipped parts of the ONTC will be restored.

`MAJOR` = Restore the requested ONTC side to active major.

`MINOR` = Restore the requested ONTC side to active minor.

`UCL` = Unconditionally restore the specified ONTC. No diagnostics are performed.

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a = ONTC side (0 or 1).

b = Foundation peripheral controller (FPC) side (0 or 1) to be used as a 'helper' unit for the diagnostic. The FPC is used to control the ONTC during the diagnostic. If this option is not input the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. An RST:ONTC output message will follow.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
DGN:ONTC
RMV:ONTC
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
DGN:ONTC
RMV:ONTC
RST:ONTC
```

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RST:ONTCCOM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Restores office network and timing complex common (ONTCCOM) units to an in-service condition. All dual link interfaces (DLIs) or network link interfaces (NLIs) that are currently in an out-of-service (OOS) family of equipment (FE) state will also be restored.

Refer to MCC Display Page 12.09 for additional information.

2. FORMAT

```
RST:ONTCCOM=a[{,UCL~|~:HELPER=b}][c];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally restores the specified ONTCCOM. No diagnostics are performed.

`a` = ONTC common side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Specifies the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The FPC is used to control the ONTC during the diagnostic. If this option is not input the standby FPC will be used.

This option is not applicable in communication module 3 (CM3) office.

`c` = ONTC common side restore status.

If the MAJOR or MINOR option is not specified, the optimum side of the ONTCCOM will become ACT MAJOR.

The optimum ONTCCOM side is determined by examining the number of SMs isolated from call processing as the first criterion, interconnectability of SMs for call processing as the second criterion, and call setup capacity as the third criterion. First the SMs are checked, to determine which side has the most SMs available. If neither side is greater the second criterion is invoked to determine which side has the least SMs isolated from call processing. If both sides are equal the third criterion is invoked. If call setup capacity is the same on both sides no clear cut side has been established as the best; therefore the requested side is made ACT MAJOR. Otherwise, the optimal algorithm shows that the other side is better, and that side is made ACT MAJOR.

Valid value(s):

`MAJOR` = ONTC common side restored becomes active major.

`MINOR` = ONTC common side restored becomes active minor.

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4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. An RST:ONTCCOM output message will follow.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
DGN:ONTCCOM
OP:DMQ
RMV:ONTCCOM
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Output Message(s):

```
DGN:ONTCCOM
OP:DMQ-CM
RMV:ONTCCOM
RST:ONTCCOM
```

MCC Display Page(s):

ONTC

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RST:OSCXC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Restores the network clock 2 oscillator cross-couple output (OSCXC) to service. There are no diagnostics run on the OSCXC unit.

Note: The OSCXC provides the signal from a network clock oscillator (NCOSC) to the opposite network clock side. Therefore, the state of the OSCXC is dependent on the state of the NCOSC. This command is not applicable in Communication Module 3 (CM3) office.

2. FORMAT

```
RST:OSCXC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Network clock side (0 or 1).

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

`OK` = The request was accepted and completed.

`PF` = Printout follows. An RST:OSCXC output message will follow in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:OSCXC
```

Output Message(s):

```
RST:OSCXC
```

MCC Display Page(s):

(NETWORK CLOCK)

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RST:OSPSPORT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the restoration of an operator services position system (OSPS) port (OSPSPORT) to service by deleting the specified out-of-service (OOS) status. When the last OOS status is deleted, the OSPSPORT is restored to service.

Up to four independent OOS conditions can exist simultaneously on an OSPSPORT. Refer to APP:PORT-STATUS in the Appendixes section of the Output Messages manual for a more detailed explanation of statuses that apply to OSPSPORTs. An OSPSPORT can be identified by its type [such as autoquote establishment (AQEST) or autoquote mate analog (AQM)] and its associated external identifier parameters or by its equipment number (LCEN, LCKEN, or TEN). If an AQEST or AQM OSPSPORT is busy when the request is made, it will be camped on for up to 20 minutes. If a camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message if desired. If an OSPSPORT other than an AQEST or AQM is busy when the request is made, the request is denied.

2. FORMAT

```
RST:OSPSPORT,a[,CH=b][,UCL][[:c][,d][,e][,f]];
```

3. EXPLANATION OF MESSAGE

a = Port identifier. Valid value(s):

AQEST=g	OPT=j-k
AQM=h-i	TEN=l-q-r-s-t
BST=j-k	XDPF=p
LCEN=l-m-n-o	XDPO=j
LCKEN=l-m-u-v-w	

b = Channel identifier [D (default), B1, or B2]. Used only for digital subscriber line (DSL) OSPSPORTs. Ignored if the item identified is not a DSL.

If this option is not specified or if the D-channel is specified, an attempt will be made to restore the D-channel and all on-demand service B-channels, but permanent packet B-channels will not be restored. If a B-channel is specified, only that B-channel will be restored to service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be restored to service even if only the D-channel or a B-channel is specified in the input request.

Port status, which indicates the restriction to be deleted from the OSPSPORT. Status subfields are always separated by a single comma, even if the statuses in-between are omitted (as in OOS, DSBLD).

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c = Basic state. Valid value(s):

- ALL = If entered, no other status fields need be specified and all existing status information (primary and pending) will be removed for the specified line(s). This will result in the line(s) being placed in service (IS). Care should be exercised when using this option because restoring lines that are OOS, MTCE, FE, or FAF could result in undesired effects (that is, PORTLA audit failures, and so forth).
- OOS = Out-of-service (default).

d = Qualifier (choose one or omit). Valid value(s):

- BLKD = Blocked.
- CADN = Circuit administration.
- CUTOVER = Cutover (pre-cut) inactive state.
- DSLINIT = DSL initialization.
- MKBUSY = Make busy.
- MTCE = Maintenance (default).
- PPSRV = Pre-post service.
- TMT = Traffic management.

e = Operational restriction (choose one or omit). Valid value(s):

- DSBLD = Disabled (default).
- DCHOOS = D-channel is out of service.
- HW = High and wet.
- LVL1ERR = Level 1 protocol error.
- LVL2ERR = Level 2 protocol error.
- LVL3ERR = Level 3 protocol error.
- PLGUP = Plug-up (currently no affect).
- PX = Power cross.
- RAP = Recorded announcement port.

Note: If the entire port status is omitted, the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

f = Supplementary information (choose one or omit). This field is used to record the reason for removal. Valid value(s):

- AML = Automatic maintenance limit.
- AQ = Autoquote problem.
- AUDIT = Audit detected problem.
- CAROT = Centralized automatic reporting on trunks.
- CDI = Control and data interface.
- CKT = Circuit.
- CTTU = Central trunk testing unit.
- DFI = Digital facility interface.
- DLNORSP = Directory assistance system computer (DAS/C) link no response.
- DYGSPUS = Dying gasp under study.
- FORPOT = Foreign potential.

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GRD	= Ground fault.
IAA	= Ineffective attempt analysis.
ISLU	= Integrated services line unit.
L2DOWN	= Level 2 is inoperable.
L2QLTY	= Poor level 2 transmission quality.
LINK1	= The basic rate interface transmission extension (BRITE) link one is down.
LINK2	= The BRITE link two is down.
LINK3	= The BRITE link three is down.
LINK4	= The BRITE link four is down.
LINK5	= The BRITE link five is down.
LINK6	= The BRITE link six is down.
MPOOS	= Modem pool line out of service.
MSMTCH	= Mismatch.
MTCECH	= Maintenance channel.
NR	= No response.
NRT	= No response while in test mode.
NTDACT	= Network termination (NT) is deactivated.
NTOFN	= NT off normal.
NTPWR	= NT lost power.
OPNOXL3	= OSPS position no level 3 protocol 3.
PCTF	= Per-call test failure.
POSNOB	= OSPS position no B-channel.
POSNRSP	= OSPS position no response.
PPM	= Periodic pulse metering.
PSU	= Packet switch unit.
REX	= Routine exercise.
RO	= Routine other.
ROTF	= Operational trouble.
SCC	= Switching Control Center.
SPARED	= Line involved in an integrated services line unit (ISLU) sparing configuration.
STKSCH	= Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).
SWEQF	= Switch equipment failure.
TEST	= In test mode.
TEST1	= Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.
TEST2	= Testing in progress at the NT or BRITE CU and the BRITE link two is down.
TEST3	= Testing in progress at the NT or BRITE CU and the BRITE link three is down.
TEST4	= Testing in progress at the NT or BRITE CU and the BRITE link four is down.
TEST5	= Testing in progress at the NT or BRITE CU and the BRITE link five is down.
TEST6	= Testing in progress at the NT or BRITE CU and the BRITE link six is down.
TICOM	= Treated interface common circuit.
TINTF	= The T interface is down.
TRBL	= Unspecified trouble.
TRBLORG	= Origination trouble.
TREQF	= Transmission equipment failure.
TRKBD	= Trunk board.
TRKCT	= Trunk circuit.

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`UINTF` = The *ANSI*® Standard U interface is down.

`g` = Telephone number.

`h` = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted and is followed by a RST:OSPSPORT output message.
RL	= Retry later. The request has been denied, most likely due to system load.

5. REFERENCES

Input Message(s):

```
OP:STATUS
RMV:OSPSPORT
STP:CAMPON
```

Output Message(s):

```
REPT:CAMPON
RST:OSPSPORT
```

Input Appendix(es):

```
APP:RANGES
```

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RST:PAG

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores call processing on a network interface on a packet access gateway (PAG).

2. FORMAT

```
RST:PAG=a-b,~NETINTF=c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PAG component number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the RST:PAG output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RMV:PAG`
`STP:PAG`

Output Message(s):

`RST:PAG`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):

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235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1342,y PAG

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RST:PCTDX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a peripheral control and timing data exchanger (PCTDX) be restored to service.

2. FORMAT

```
RST:PCTDX=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = unconditionally execute the restore.

`a` = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:PCTDX output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:PCTDX
STP:PCTDX
RMV:PCTDX
```

Output Message(s):

```
RST:PCTDX
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1330,y (PDXU)

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RST:PERF

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests an unconditional restoration of the OOS common controller for each offline pumpable peripheral after a peripheral offline pump has been performed on one or more switching modules (SMs). The request will duplex the peripheral to an active/stand-by state. This input message can be issued prior to a generic retrofit SM switch to back out of the peripheral offline pump or after the generic retrofit SM switch to commit the peripherals.

2. FORMAT

```
RST:PERF,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or the lower limit of a range of SM numbers.

`b` = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The request cannot be executed now due to unavailable system resources.

`PF` = Printout follows. The request was accepted. Output message REPT:RST-PERF follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
REPT:RST-PERF
```

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RST:PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a PCT (Peripheral Control and Timing) line and trunk unit link (PLTLK) be restored to service. If the PLTLK is restored conditionally, the diagnostic runs and all tests must pass before service is restored to the link. If the PLTLK is restored unconditionally, no testing is performed.

2. FORMAT

```
RST:PLTLK=a-b-c-d[,UCL][,STBY][,ALL];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`UCL` = Restore unconditionally without diagnostics.

`STBY` = Restore the unit to the standby state. If the mate PLTLK is active, this option is required.

`ALL` = All subtending tributaries will be restored.

4. SYSTEM RESPONSE

`NG` = No good. Valid values are:
- REASON FOR NG = The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A RST PLTLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

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```
ABT:PLTLK
DGN:PLTLK
STP:PLTLK
RMV:PLTLK
SW:PLTLK
```

Output Message(s):

```
RST:PLTLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1430 (PLTU Status page)

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RST:PMU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a single precision measurement unit (PMU) circuit be conditionally or unconditionally restored to service.

2. FORMAT

```
RST:PMU=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Restore the PMU unconditionally without diagnosis.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:PMU output message.

5. REFERENCES

Output Message(s):

`RST:PMU`

Input Appendix(es):

`APP:RANGES`

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RST:PPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Restores the specified pump peripheral controller (PPC) to service.

The message switch control unit must be in service before the PPC can be restored.

Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
RST:PPC=a[,UCL][,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restores the PPC to the standby state.

`UCL` = Unconditionally restores. No diagnostics are performed.

Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

`a` = PPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = The message was invalid.

`PF` = Followed by an RST:PPC output message.

5. REFERENCES

Output Message(s):

```
DGN:PPC
RST:PPC
```

Input Appendix(es):

```
APP:RANGES
```

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RST:PPPLK

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an optical interface unit (OIU) point to point protocol link (PPPLK) be restored to service.

2. FORMAT

```
RST:PPPLK=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restores without first conditionally removing the PPPLK.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:PPPLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:PPPLK
STP:PPPLK
```

Output Message(s):

```
RST:PPPLK
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1494 OIU PKT STATUS

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RST:PROTO

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores the protocol (PROTO) circuit to the active state conditionally or unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:PROTO=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores without diagnostics.
a	= Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= The request was accepted. Followed by an RST:PROTO output message.

5. REFERENCES

Output Message(s):

RST:PROTO

Input Appendix(es):

APP:RANGES

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RST:PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a packet switch unit common controller (PSUCOM) be restored to service.

2. FORMAT

```
RST:PSUCOM=a-b-c[,ACT|,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`ACT` = Restore the unit to the active state (default).

`STBY` = Restore the unit to the standby state.

`UCL` = Unconditionally restore without diagnostics.

`a` = Switching module (SM) number.

`b` = Packet switch unit (PSU) number (0).

`c` = Service group number (0 or 1).

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. An RST:PSU output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:PSU`

MCC Display Page(s):

118x (PSU SHELF)
1186 (PSU NETWORK)

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RST:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a packet switch unit common controller (PSUCOM) be restored to service.

2. FORMAT

```
RST:PSUCOM=a-b-c[,ACT|,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

ACT	= Restore the unit to the active state (default).
STBY	= Restore the unit to the standby state.
UCL	= Unconditionally restore without diagnostics.
a	= Switching module (SM) number.
b	= Packet switch unit (PSU) number.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. An RST:PSU output message will follow.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:PSU

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

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PSU SHELF (where y=PSU number)
PSU NETWORK (where y=PSU number)

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RST:PSUPH-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a packet switch unit (PSU) protocol handler (PH) be restored to service.

2. FORMAT

```
RST:PSUPH=a-b-c-d[,GRP=e][,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the PH to the standby state.

`UCL` = Unconditionally restore without diagnostics.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel group number to be assigned to the PH upon restoration. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: The group option request will only be honored if the channel group number specified is an unassigned channel group or an assigned channel group provided there are no other unassigned or degraded channel groups on the shelf.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A RST:PSU output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Output Message(s):

```
RST:PSU
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

118x (PSU SHELF)
1186 (PSU NETWORK)

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RST:PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a packet switch unit (PSU) protocol handler (PH) be restored to service.

2. FORMAT

```
RST:PSUPH=a-b-c-d[,GRP=e][,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the PH to the standby state.

`UCL` = Unconditionally restore without diagnostics.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel group number to be assigned to the PH upon restoration. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: The group option request will only be honored if the channel group number specified is an unassigned channel group or an assigned channel group provided there are no other unassigned or degraded channel groups on the shelf.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A RST:PSU output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Output Message(s):

```
RST:PSU
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

PSU SHELF (where y=PSU number)
PSU NETWORK (where y=PSU number)

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RST:PSUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) pair be restored to service. The purpose of this input message is to put all PSU PIDB time slot blocks in the idle list.

WARNING: This input message should only be used when a PSU PIDB is removed falsely during the PSU PIDB degrowth or when an additional PIDB is being grown.

2. FORMAT

```
RST:PSUPIDB=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The RST:PSUPIDB output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
RST:PSUPIDB
```

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Input Appendix(es):

APP:RANGES

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RST:QGL

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests an unconditional restore of a quad-link packet switch (QLPS) gateway processor link (QGL).

Note: Automatic QLPS network switches may occur if the QGL restoration improves QLPS connectivity.

2. FORMAT

```
RST:QGL=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the QGL unconditionally to the active state. Since no diagnostic exists for a QGL, every request to restore a QGL to service is performed unconditionally with or without the UCL option.

`a` = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QLPS gateway processor (QGP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = QGL number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A RST:QGL output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:QGL`

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Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1380, 1381 (QLPS NETWORK 0/1 STATUS)

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RST:QGP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Request a conditional or unconditional restore of a quad-link packet switch (QLPS) gateway processor (QGP) to the active state. The request restores all the children circuits, QLPS gateway processor links (QGLs).

Note: As part of the QGP reconfiguration, switching of the QLPS may occur.

Note: If the QGP is already in service, this message may be used with the unconditional (UCL) option to restore all related OOS QGLs/QGP QPIPEs.

Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

```
RST:QGP=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the QGP unconditionally. No diagnostics are performed. If the QGP is already in service, restore all related OOS QGLs/QGP QPIPEs to service.

Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

`a` = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A RST:QGP output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
RST:QGL
```

Output Message(s):

```
DGN:QGP
RST:QGP
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241,1251 (MSGS COMMUNITIES)
1240,1250 (MSGS STATUS for CM3)
1380,1381 (QLPS NETWORK 0/1 STATUS)

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RST:QLPS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Request a conditional or unconditional restore of a quad-link packet switch (QLPS) to the standby state.

Note: If the resulting QLPS configuration is not optimal, an automatic reconfiguration (switch) of the QLPS occurs.

2. FORMAT

```
RST:QLPS=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the QLPS unconditionally. No diagnostics are performed.

`a` = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A RST:QLPS output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
DGN:QLPS
RMV:QLPS
RST:QLPS
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1209 (ONTC 0 & 1)
1380,1381 (QLPS NETWORK 0/1 STATUS)

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RST:QPHPIPE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a quad-link packet switch protocol handler (QPH) QPIPE be restored to service.

2. FORMAT

```
RST:QPHPIPE=a-b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Global switching module (GSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = QPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Quad-link packet switch (QLPS) network number, which is 0 or 1, or a range 0&&1 to restore QPH QPIPEs on both networks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = The request has been accepted. A RST:QPHPIPE output message will follow, specifying the results of the request.

`NG - SM UNEQUIPPED` = This response indicates that the input GSM (part of the QPH QPIPE specification) is not even an equipped SM.

`NG - NOT A GSM` = This response indicates that the input GSM (part of the QPH QPIPE specification) is not a provisioned GSM.

`RL - GSM NOT AVAILABLE` = This response indicates that the input GSM (part of the QPH QPIPE specification) is not available, because it is isolated or undergoing an initialization. Retry later.

5. REFERENCES

Output Message(s):

`RST:QPHPIPE`

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-200-116 *5ESS Switch Signaling Gateway Common Channel Signaling*

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RST:QTMSLNK

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a unconditional restore of a quad-link packet switch (QLPS) time multiplexed switch link (QTMSLNK) to the active state.

Note: Automatic QLPS network switches may occur if the QTMSLNK restoration improves QLPS connectivity.

2. FORMAT

```
RST:QTMSLNK=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the QTMSLNK unconditionally to the active state. Since no diagnostic exists for a QTMSLNK, every request to restore a QTMSLNK to service is performed unconditionally with or without the UCL option.

`a` = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = QTMSLNK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A RST:QTMSLNK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:QTMSLNK`

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Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1380,1381 (QLPS NETWORK 0/1 STATUS)

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RST:RAF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a recorded announcement function (RAF) unit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:RAF=a-b [,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally restores without diagnostics.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by an RST:RAF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Output Message(s):

`RST:RAF`

Input Appendix(es):

`APP:RANGES`

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RST:RAU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores a remote switching module (RSM) alarm (RAU) circuit to service.

2. FORMAT

```
RST:RAU=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally restore the circuit. If circuit is out of service, it is returned to service without diagnostic testing. If circuit is in service, it is removed unconditionally. It is then returned to service without diagnostic testing.

`a` = Switching module number.

4. SYSTEM RESPONSE

`NG` = Request denied because of a conflict with current status.

`PF` = Followed by the RST:RAU output message.

5. REFERENCES

Input Message(s):

```
RMV:RAU
```

Output Message(s):

```
RST:RAU
```

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RST:RCL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote communication link (RCL) between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits be restored to service.

2. FORMAT

```
RST:RCL=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the communication link unconditionally without connectivity exercise testing. The link will not be restored if there is a carrier group alarm on the CDFI.

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number, (0-5).

`c` = CDFI number, (1 - 10).

`d` = Facility (FAC) number, (0, 1). The FAC number is the T1 facility number on a CDFI.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

```
-NOT STARTED UNIT IN GROWTH STATE
-SM DOES NOT EXIST
-SM UNEQUIPPED
-UNIT DOES NOT EXIST
```

`PF` = Printout follows. A RST:RCL output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RCL
```

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Output Message(s):

```
RST:RCL
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:RCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified remote clock (RCLK) circuit be restored to service. This message will also restore both the remote clock cross couples (RCXCs) and also all the equipped remote clock references (RCREFs).

2. FORMAT

```
RST:RCLK=a-b[,UCL] [,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore to standby state. Active state is the default state.

`UCL` = Unconditionally execute.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. A RST:RCLK output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:RCLK`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1170 (RSM RCLK)

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RST:RCOSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock oscillator (RCOSC) be restored to service. Depending upon the state of the RCLK, the oscillator may be restored as active or standby. This message will also restore the associated remote clock oscillator cross couple (RCOXC).

Note: Under normal conditions an oscillator may only be restored to service if it has been powered up for a minimum of one hour for a medium stability oscillator or 16 hours for a high stability oscillator.

2. FORMAT

```
RST:RCOSC=a-b [,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore to standby state (default is active).

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RCOSC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. A RST:RCOSC output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
RMV:RCOSC
```

Output Message(s):

```
REPT:RCLK-RWP
RST:RCOSC
RST:RCOXC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1170 (RSM RCLK)

RST:RCOXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock oscillator cross couple (RCOXC) be restored to service.

2. FORMAT

```
RST:RCOXC=a-b [,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore to standby state. Active state is the default state.

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = RCOXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. A RST:RCOXC output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:HDW-RCOSC
ALW:HDW-RCOXC
RMV:RCOSC
RMV:RCOXC
RST:RCOSC
```

Output Message(s):

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```
RST:RCOSC
RST:RCOXC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1170 (RSM RCLK)

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RST:RCREF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock reference (RCREF) be restored to service. There are no diagnostics run on RCREF units.

2. FORMAT

```
RST:RCREF=a-b [,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore to standby state

`UCL` = Execute unconditionally

`a` = Switching module (SM) number

`b` = RCREF to be restored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. A RST:RCREF output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RMV:RCREF`

Output Message(s):

`RST:RCREF`

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Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1170 (RSM RCLK)

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RST:RCXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock cross couple (RCXC) be restored to service. This requires both the remote clocks (RCLKs) to be in service.

2. FORMAT

```
RST:RCXC=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally.

`a` = Switching module (SM) number.

`b` = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. A RST:RCXC output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RCXC
RST:RCLK
```

Output Message(s):

```
RST:RCXC
```

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MCC Display Page(s):

1170 (RSM RCLK)

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RST:RDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores a remote switching module (RSM) digital facilities interface (RDFI) circuit to service.

2. FORMAT

```
RST:RDFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally restore the circuit. If the circuit is out of service, it is returned to service without diagnostic testing. If the circuit is in service, it is removed unconditionally, which will disconnect stable inter-module calls. It is then returned to service without diagnostic testing.

`a` = Switching module number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Print follows. Followed by the RST:RDFI output message.

5. REFERENCES

Input Message(s):

`RMV:RDFI`

Output Message(s):

`RST:RDFI`

Input Appendix(es):

`APP:RANGES`

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RST:RLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores a remote switching module (RSM) remote link interface (RLI) circuit to service and makes it active or standby.

2. FORMAT

```
RST:RLI=a-b[,UCL][,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the circuit to standby operation.

`UCL` = Unconditionally restore the circuit. If the circuit is out of service, it is returned to service and made active without diagnostic testing. If the circuit is in service, it is removed unconditionally, which will disconnect stable inter-module calls if the circuit is active. It is then returned to service and made active without diagnostic testing.

`a` = Switching module number.

`b` = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Print follows. Followed by the RST:RLI output message.

5. REFERENCES

Input Message(s):

`RMV:RLI`

Output Message(s):

`RST:RLI`

Input Appendix(es):

`APP:RANGES`

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RST:ROP

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Restores the specified receive-only printer (ROP) to service.

Note: The input/output processor (IOP) and maintenance teletypewriter controller (MTTYC) must be in service before the ROP can be restored.

2. FORMAT

```
RST:ROP=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:ROP output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTYC
```

Output Message(s):

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RMV:ROP
RST:IOP
RST:MTTYC
RST:ROP
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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RST:RPCN

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the specified ring peripheral controller node (RPCN) be restored to service.

The RPCN is first removed from service following the rules for RMV:RPCN input message. The RPCN is next diagnosed following the rules for the DGN:RPCN input message (all automatic phases are executed). The final action depends on the RPCN major state and diagnostic results as follows:

1 = If the RPCN major state is out of service (OOS) and the diagnostic results are all tests passed (ATP) or conditional all tests passed (CATP), an attempt is made to include the RPCN into the active ring. If the inclusion fails, the restoration is stopped. If the inclusion succeeds, and both the ring interface unit (RI) minor state and the node processor (NP) minor state are usable (USBL), the RPCN is restored to service (pumped with operational code, placed into execution, and its major state changed to ACT). Otherwise the restoration is stopped.

2 = If the RPCN major state is OOS but the diagnostic results are no tests run (NTR), abort (ABT), or some tests failed (STF), the restoration is stopped.

3 = If the RPCN major state is not OOS, the restoration is stopped.

2. FORMAT

```
RST:RPCNa=0[[:RAW[:TLP]]|[,UCL]];
```

3. EXPLANATION OF MESSAGE

`RAW` = Print the diagnostic results of every phase. The default is to print the results of the first five failures of each failing phase.

`TLP` = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. The TLP generates a list of suspected faulty equipment.

`UCL` = Restore the node unconditionally. The default is a conditional restoration.
Note: The UCL parameter should not be used with any other parameter. If it is used with another parameter then the other parameter will be ignored.

`a` = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows.

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The system action is different for conditional and unconditional restoration requests.

5. REFERENCES

Input Message(s):

```
DGN:RPCN
RMV:RPCN
CFR:RING
```

Output Message(s):

```
ANALY:TLPFILE
DGN:RPCN
RMV:RPCN
RST:RPCN
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)

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RST:RRCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK) be restored to service. If the restoration is conditional diagnostics will be run. All tests must pass before the unit will be restored to service. If the restoration is unconditional no testing is performed.

2. FORMAT

```
RST:RRCLK=a-b-c[,STBY][,UCL][SCREEN=d];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the circuit to the standby state. If this state is not specified the circuit will be restored to the active state.

`UCL` = Restores the RISLU unconditionally without diagnostics.

`a` = Switching module (SM) number.

`b` = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RRCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Although this option is syntactically correct, it is set internally for cross checking purposes and values entered here will be ignored.

4. SYSTEM RESPONSE

`NG` = No good.

```
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST
```

`PF` = Printout follows. An RST:RRCLK output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
RMV:RRCLK
```

Output Message(s):

```
RMV:RRCLK
```

MCC Display Page(s):

145y,x (RISLU DLTU)

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RST:RT-EOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service. This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

Requests to restore an EOC while both EOCs are in the in-service states results in the EOC being removed from and restored into service.

2. FORMAT

```
RST:RT,EOC=a-b[,STBY];
```

3. EXPLANATION OF MESSAGE

STBY	= Restore the EOC to the standby state rather than the active state (default is the active state).
a	= Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. An RST:RT-EOC output message will follow.
NG	= No good. The request has been denied. The message is valid but the request conflicts with current status.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:RT-EOC
STP:RT-EOC
```

Output Message(s):

```
RST:RT-EOC
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)

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RST:RT-TMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service. This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

Requests to restore a TMC while both TMCs are in in-service states results in the TMC being removed from and restored into service.

2. FORMAT

```
RST:RT,TMC=a-b[,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the TMC to the standby state rather than the active state (default is the active state).

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:RT-TMC output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:RT-TMC
STP:RT-TMC
```

Output Message(s):

```
RST:RT-TMC
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)

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RST:RTFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) facility (FAC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a DS1SFAC facility.

WARNING: An unconditional restoration of an RTFAC while the RTFAC is out of service may preempt maintenance activity on the RTFAC.

2. FORMAT

```
RST:RTFAC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RT FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An RST:RT-EOC output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:RTFAC
STP:RTFAC
```

Output Message(s):

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```
RST:RTFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1511,xx (DNU-S FACILITY MAINTENANCE)
1512,xx (DNU-S FACILITY APPLICATION)
1660,xxxx (TR303 REMOTE TERMINAL)

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RST:RVPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores the revertive pulsing transceiver (RVPT) to the active state.

2. FORMAT

```
RST:RVPT=a-b-c-d [,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the restoration. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`a` = Switching module number.

`b` = Unit number.

`c` = Service group.

`d` = Circuit number.

4. SYSTEM RESPONSE

`PF` = Followed by RST:RVPT output message.

5. REFERENCES

Input Message(s):

```
ABT:RVPT
RMV:RVPT
STP:RVPT
```

Output Message(s):

```
RST:RVPT
```

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RST:SAS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a service announcement system (SAS) unit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:SAS=a-b [,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Output message RST:SAS follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

`RMV:SAS`

Output Message(s):

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```
RST:SAS
```

Input Appendix(es):

```
APP:RANGES
```

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RST:SBUS

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a SCSI bus (SBUS) be restored to service. There is no diagnostic to be run for SCSI bus since the SCSI bus is a pseudo device (no physical entity) only.

Note: The disk file controller (DFC) must be in service before the SBUS can be restored.

2. FORMAT

```
RST:SBUS=a [:UCL:DATA,CONT];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restores only the SBUS. Default=restores the SBUS and all associated moving head disks (MHD).

`UCL` = Unconditional restore.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Print follows. Followed by an RST:SBUS output message.

5. REFERENCES

Input Message(s):

```
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
```

Output Message(s):

```
OP:MHD-MHD
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
```

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```
RST:MHD
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
123 (DISK FILE SYSTEM ACCESS)

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RST:SCAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a scan point board (SCAN) in the metallic service unit be conditionally or unconditionally restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:SCAN=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores without diagnosis.
a	= Switching module (SM) number.
b	= MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by RST:SCAN output message.

5. REFERENCES

Output Message(s):

RST:SCAN

Input Appendix(es):

APP:RANGES

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RST:SCC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Restores the specified Switching Control Center (SCC) data link subdevice to service.

Note: The input/output processor (IOP) and the maintenance teletypewriter controller (MTTYC) must be in service before the SCC data link subdevice can be restored.

2. FORMAT

```
RST:SCC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:SCC output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RMV:SCC
RST:IOP
RST:MTTYC
```

Output Message(s):

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RMV:SCC
RST:IOP
RST:MTTYC
RST:SCC
```

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Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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RST:SCSDC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a scanner and signal distributor controller (SCSDC) to service. If restored conditionally, an SCSDC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The input/output processor (IOP) must be in service before the SCSDC can be restored.

2. FORMAT

```
RST:SCSDC=a [[:UCL][,CONT] | [:RAW][:DATA[,TLP][,CONT]]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`TLP` = Executes the trouble locating procedure (TLP) to generate a list of suspected faulty equipment.
Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Unconditional restoration. The default is conditional restoration.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:SCSDC output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:SCSDC
RMV:IOP
RMV:SCSDC
```

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```
RST:IOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:IOP
DGN:SCSDC
RMV:IOP
RMV:SCSDC
RST:IOP
RST:SCSDC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:SCTP

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the restoration of a stream control transmission protocol (SCTP) by endpoint or association.

Format 1 requests that the state be restored from the specified SCTP near endpoint and that attempts be made to establish all associations on that near endpoint, except for those associations that are individually in the `CLOSED MAN` state.

Format 2 requests that the specified association be restored.

2. FORMAT

```
[1]    RST:SCTP,NEAREPT=a;
       _____________________________________________________________

[2]    RST:SCTP,ASSOC=b;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Endpoint name to be restored to service. This is a character string (≤20) that is provisioned on RC/V View 33.19 (SCTP NEAR END POINT).

`b` = Association number to be restored to service. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. May also include:
- `DATABASE ERROR` = Unrecoverable database error has occurred.
- `INTERNAL ERROR` = Undetermined errors, possibly a software error. This response may be accompanied by an assert.
- `INVALID ASSOCIATION ID` = The association number entered was not valid.
- `INVALID NEAR ENDPOINT NAME` = The near endpoint name entered was not valid.

`PF` = Printout follows. The request has been accepted. Followed by the RST:SCTP output message.

`RL` = Retry later. The request has been denied. May also include:
- `AM OVERLOAD` = AM is in overload.
- `SM INACCESSIBLE` = SM is not available (for example, Isolation, initialization, and so

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forth).

- SYSTEM ERROR = The system is probably in overload due to too many requests. The OP:JOBSTATUS input message can be used to determine if the RL was because the maximum number of jobs are active.

5. REFERENCES

Input Message(s):

```
OP:JOBSTATUS
OP:ST-SCTP
STP:ST-SCTP
```

Output Message(s):

```
RST:SCTP
```

Input Appendix(es):

```
APP:RANGES
```

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RST:SDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores either conditionally or unconditionally a *SLC*®96 digital facility interface (SDFI) to service.

2. FORMAT

```
RST:SDFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally restores without diagnostics.

`a` = Switching module (SM) number.

`b` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = The request was accepted. Followed by an RST:SDFI output message.

`RL` = Repeat later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RST:SDFI`

Input Appendix(es):

`APP:RANGES`

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RST:SDL

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Restores the specified synchronous data link (SDL) subdevice to service.

Note: The input/output processor and the synchronous data link controller must be in service before the SDL subdevice can be restored.

2. FORMAT

```
RST:SDL=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:SDL output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:SDLC
RMV:IOP
RMV:SDL
RMV:SDLC
RST:IOP
RST:SDLC
```

Output Message(s):

```
DGN:IOP
DGN:SDLC
RMV:IOP
RMV:SDL
RMV:SDLC
RST:IOP
RST:SDL
RST:SDLC
```

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Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:SDLC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a synchronous data link controller (SDLC) to service. If restored conditionally, an SDLC diagnostic is run, and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The input/output processor must be in service before the SDLC can be restored.

2. FORMAT

```
RST:SDLC=a [[:UCL][,CONT] | [:RAW][[:DATA][,TLP][,CONT]]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restores only the SDLC. The default is to restore the SDLC and all associated synchronous data link (SDL) subdevices.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Unconditional restoration. The default is conditional restoration.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RST:SDLC output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:SDLC
RMV:IOP
```

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```
RMV:SDLC
RST:IOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:IOP
DGN:SDLC
RMV:IOP
RMV:SDLC
RST:IOP
RST:SDLC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:SFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI) be restored to service.

2. FORMAT

```
RST:SFI=a-b-c-d[,STBY][,UCL];
```

3. EXPLANATION OF MESSAGE

`STBY` = Restore the unit to the standby state. If the mate SFI is active, this option is required.

`UCL` = Restore unconditionally without diagnostics.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A RST:SFI output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:SFI
STP:SFI
```

Output Message(s):

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```
RST:SFI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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RST:SLIM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a subscriber line instrument measurement (SLIM) board in the metallic service unit be conditionally or unconditionally restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:SLIM=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SLIM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The RST:SLIM output message will follow.

5. REFERENCES

Output Message(s):

`RST:SLIM`

Input Appendix(es):

`APP:RANGES`

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RST:STS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a synchronous transport signal - level 1 (STS1) be restored to service. Restoring an STS1 without the ALL and UCL options will restore the STS1 circuit and the OOS-FE children (subtending) circuits. When the ALL option is used in conjunction with UCL option, all OOS children (subtending) circuits and the parent STS1 circuit will be restored.

2. FORMAT

```
RST:STS1=a-b-c-d-e[,UCL][,ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = All subtending facilities will be restored.

`UCL` = Restores without first conditionally removing the parent STS1. When the UCL option is used in with the All option, the OOS children of the STS1 and the parent STS1 circuit will be restored.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:STS1 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:STS1
STP:STS1
```

Output Message(s):

```
RST:STS1
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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RST:STS3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a synchronous transport signal - level 3 concatenated (STS3C) facility be restored to service. Restoring an STS3C with the UCL option will restore the STS3C facility immediately, from the current state, without first attempting a conditional remove of the STS3C. Restoring an STS3C without the ALL option will restore the STS3C facility and any out-of-service family-of-equipment (OOS-FE) subtending circuit(s). When the ALL option is used, all subtending circuit(s) which are eligible to be restored manually will be restored regardless of their current state(s).

2. FORMAT

```
RST:STS3C=a-b-c-d-e[,UCL][,ALL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restores without first conditionally removing the STS3C.

`ALL` = All subtending circuit(s) will be restored.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:STS3C output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
ABT:STS3C
STP:STS3C
```

Output Message(s):

```
RST:STS3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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RST:STSFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be restored to service.

WARNING: An unconditional restoration of an STSFAC while the STSFAC is out of service may preempt maintenance activity on the STSFAC.

2. FORMAT

```
RST:STSFAC=a-b-c-d-e[,ALL][,UCL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Restore all subtending facilities.

`UCL` = Restore unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.
`PF` = Printout follows. A RST:STSFAC output message follows.
`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:STSFAC
STP:STSFAC
```

Output Message(s):

```
RST:STSFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)

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RST:TAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores either conditionally or unconditionally a test and access (TAC) circuit in a trunk unit to service.

2. FORMAT

```
RST:TAC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module number.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Followed by RST:TAC output message.

5. REFERENCES

Output Message(s):

`RST:TAC`

Input Appendix(es):

`APP:RANGES`

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RST:TEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores either conditionally or unconditionally a single analog trunk in a trunk unit specified by a trunk equipment number (TEN) circuit in a trunk unit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

```
RST:TEN=a-b-c-d-e[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores without diagnosis.
a	= Switching module number.
b	= Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= Trunk circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e	= TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Followed by RST:TEN output message.

5. REFERENCES

Output Message(s):

RST:TEN

Input Appendix(es):

APP:RANGES

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RST:TMSFP

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified time multiplexed switch (TMS) fabric pair (TMSFP) be restored to service. This command also has the option of restoring the TMSFP and all of its children, independent of the child's state (for example, OOS,MAN,RMV).

2. FORMAT

```
RST:TMSFP=a-b[,ALL][,UCL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Restores the TMSFP and all its child units (for example, QLPSs, NLIs, DLIs), independent of the childs state (for example, OOS,MAN,RMV, OOS,MAN,FLT).

`UCL` = Unconditionally restores the TMSFP without diagnostics.

`a` = ONTC side that the TMSFP is on.

`b` = TMS fabric pair number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A RST:TMSFP output message will follow in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:TMSFP
OP:CFGSTAT
OP:DMQ-CM-SM
STP:TMSFP
```

Output Message(s):

```
OP:CFGSTAT
OP:DMQ-CM
```

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```
RST:TMSFP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

MCC Display Page(s):

1212	TMS FABRIC PAIR STATUS
1214	QLPS SUMMARY
1220,b	TMS LINK SUMMARY (where b=TMSFP number).

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RST:TMSLNK-A

Software Release: 5E15 - 5E16(1)
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified time multiplexed switch link (TMSLNK) be restored to service. The TMS portion of the office network and timing circuit common (ONTCCOM) portion, and the DLI, dual link interface, both must be in service prior to restoring a TMSLNK. No diagnostics exist for TMSLNKS. Therefore, any request that TMSLNKs be restored is an unconditional request.

2. FORMAT

```
RST:TMSLNK=a-{b|b&&c}[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the line unconditionally. Since there is no diagnostic for the TMSLNK, adding the UCL option has no effect on the message. The option is provided for consistency with other input messages.

`a` = ONTC side that the TMSLNK(s) are on.

`b` = Number of the specific TMS link to be restored, on the lower limit in a range of TMS line numbers.

`c` = Upper limit is a range of TMS line numbers.

Note: If a TMSLNK that is part of a range request is either unequipped or already in service, no action will be performed on that link.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. A RST:TMSLNK output message will follow in response to the request.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

`OP:CFGSTAT`

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Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
RST:TMSLNK
```

RST:TMSLNK-B

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified time multiplexed switch link (TMSLNK) be restored to service. The DLI or NLI associated with the TMSLNK must be in service prior to restoring the TMSLNK. No diagnostics exist for TMSLNKS. Therefore, any request that TMSLNKs be restored is an unconditional request.

2. FORMAT

```
RST:TMSLNK=a[-b]-c[&&d][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the link unconditionally. Since there is no diagnostic for the TMSLNK, adding the UCL option has no effect on the message. The option is provided for consistency with other input messages.

`a` = ONTC side that the TMSLNK(s) are on.

`b` = Time multiplexed switch fabric pair (TMSFP) number. For CM2 offices, this parameter is optional, and when entered, must always be TMS fabric pair 0. For CM3 offices, this parameter is required to identify a TMS link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Number of the specific TMS link to be restored, or the lower limit in a range of TMS link numbers.

`d` = Upper limit for a range of TMS link numbers.

If a TMSLNK that is part of a range request is either unequipped or already in service, no action will be performed on that link.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the RST:TMSLNK output message.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

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```
OP:CFGSTAT
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Output Message(s):

```
RST:TMSLNK
```

MCC Display Page(s):

1220[,b]	TMS 0 & 1 LINK SUMMARY (where b=TMSFP for CM3)
1221[,b]	TMS 0 LINKS 2-61 (where b=TMSFP for CM3)
1222[,b]	TMS 0 LINKS 62-125 (where b=TMSFP for CM3)
1223[,b]	TMS 0 LINKS 126-189 (where b=TMSFP for CM3)
1224[,b]	TMS 0 LINKS 190-253 (where b=TMSFP for CM3)
1225[,b]	TMS 0 LINKS 254-317 (where b=TMSFP for CM3)
1226[,b]	TMS 0 LINKS 318-381 (where b=TMSFP for CM3)
1227[,b]	TMS 0 LINKS 382-445 (where b=TMSFP for CM3)
1228[,b]	TMS 0 LINKS 446-511 (where b=TMSFP for CM3)
1231[,b]	TMS 1 LINKS 2-61 (where b=TMSFP for CM3)
1232[,b]	TMS 1 LINKS 62-125 (where b=TMSFP for CM3)
1233[,b]	TMS 1 LINKS 126-189 (where b=TMSFP for CM3)
1234[,b]	TMS 1 LINKS 190-253 (where b=TMSFP for CM3)
1235[,b]	TMS 1 LINKS 254-317 (where b=TMSFP for CM3)
1236[,b]	TMS 1 LINKS 318-381 (where b=TMSFP for CM3)
1237[,b]	TMS 1 LINKS 382-445 (where b=TMSFP for CM3)
1238[,b]	TMS 1 LINKS 446-511 (where b=TMSFP for CM3)

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RST:TMUX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX) be restored to service.

2. FORMAT

```
RST:TMUX=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Restore unconditionally without diagnostics.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d	= TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. A RST:TMUX output message follows.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:TMUX
STP:TMUX
```

Output Message(s):

```
RST:TMUX
```

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Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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RST:TRFM-A

Software Release: 5E16(1) - 5E16(2)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a restore of a traffic measurements settings.

2. FORMAT

```
RST:TRFM[,NOCHG];
```

3. EXPLANATION OF MESSAGE

`NOCHG` = Command with this parameter removes all stored data from the relation.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `Stored data not found.` = Restore process not executed because backup command was not executed.

`OK` = Okay. May also include:
- `Process completed successfully` = Restore process completed successfully.

5. REFERENCES

Other Manual(s):
235-040-100 *Switch Operations, Administration and Maintenance Planning Guide*
235-070-100 *Administration and Engineering Guidelines*

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RST:TRFM-B

Software Release: 5E17(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a restore of a traffic measurements settings.

2. FORMAT

```
RST:TRFM[,NOCHG];
```

3. EXPLANATION OF MESSAGE

`TRFM` = Restores traffic measurements settings. Stored data are not removed from the relation.

`TRFM,NOCHG` = Removes all stored data from the relation without restoring them.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `STORED DATA NOT FOUND` = Restore process not executed because the backup command was not executed.

`OK` = Okay. May also include:
- `PROCESS COMPLETED SUCCESSFULLY` = Restore process completed successfully.

5. REFERENCES

Other Manual(s):
235-040-100 *Switch Operations, Administration and Maintenance Planning Guide*
235-070-100 *Administration and Engineering Guidelines*
235-190-400 *Feature Descriptions*

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RST:TRIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a PCT (Peripheral Control and Timing) link tributary (TRIB) is restored to service. If the TRIB is restored conditionally, a conditional remove is done first.

2. FORMAT

```
RST:TRIB=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`UCL` = Restore unconditionally.

4. SYSTEM RESPONSE

`NG` = No good. Valid values are:
- REASON FOR NG = The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A RST:TRIB output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

```
ABT:TRIB
STP:TRIB
RMV:TRIB
```

Output Message(s):

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```
RST:TRIB
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1430 (PLTU Status page)
1431 (PLTU Tributary Status Page)

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RST:TRK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk, a range of trunks in a trunk group, an entire trunk group, a primary rate interface (PRI) group, all trunks on a digital facility interface (DFI), all trunks on a digital networking unit - synchronous optical network (SONET) (DNU-S) virtual tributary level 1 facility, or all trunks on a peripheral control and timing line and trunk unit (PLTU) be returned to service by deleting the specified out-of-service (OOS) condition. If no port status is given, a default port status is assumed.

When the PSUEN for the PCF trunk is entered, the entire PCF trunk group will be restored.

A trunk may have from one to four OOS statuses. If no other OOS status is pending after the OOS status is deleted, the trunk is placed back in service and idled. If another OOS status was pending, the trunk is treated according to the pending OOS status.

If the trunk to be restored is an custom PRI D-channel or OSPS PRI D-channel, up to 23 associated B-channels may also be restored as a result. If the trunk to restored is a standard PRI D-channel, up to 479 B-channels may also be restored as a result.

NOTE: When a packet trunk is restored, a loopback test is executed. This loopback test generates a receiver ready frame at layer 2, which, due to hardware limitations, is erroneously sent to the trunk's far end. To take care of this case, the switch at the far end should follow the International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) X75 recommendation which specifies discarding any invalid frames while in the disconnected state.

Restoring a CCS trunk from the OOS,MTCE,DSBLD,TRBL status will cause trunk's status change to OOS,MTCE, CCSINIT,TRBL and reset sending start immediately for the restored trunk.

2. FORMAT

```
RST:TRK,q[1][,UCL][:[w][,x][,y][,z]][,SUM];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore the trunk(s) unconditionally. For a CCS7 trunks, this option bypasses the default automatic test provisioned for the TG (if any). For a packet switching trunk, this option restores the trunk to service without performing a digital loop back test at the office channel unit (OCU).

`a` = Trunk group or bearer independent call control (BICC) group in which all of the members will have the specified status deleted. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Trunk group member or normalized call instance code (CIC), or the lower limit of a range of trunk group member numbers or normalized CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d` = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Channel (D,B). Valid value(s):

- `D` = Specifying this causes the D-channel(s) of the PRI group to be restored. If the PRI has a backup D-channel, it is also restored.
- `B` = Specifying this will cause all of the B-channels of the PRI group to be restored.

When used with the PRIGRP identifier, this option specifies which channels on the PRIGRP are to be restored.

`i` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Channel number. If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

- `ALL` = If ALL is requested, all channels on the DFI will have the specified OOS status deleted. For DFI-1, this will be channels 1-24. For DFI-2, this will be channels 1-48. The FAC option can be used to specify which set of 24 channels to restore for a DFI-2. Refer to the FAC option for additional information.

`l` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Directory number (DN).

`o` = Upper limit of a range of trunk group members or normalized CICs.

`p` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`r` = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
`ALL` = Delete the specified OOS status for all trunks on the RT.

If a status is not specified, statuses will be deleted depending on trunk type.

Trunk Type	Default Status
One-way incoming trunks	OOS, MTCE, DSBLD
One-way outgoing trunks,two-way trunks, and CAMA ONI trunks	OOS, MTCE, DSBLD and/or OOS, MTCE, LKDO
Announcement port	OOS, MTCE, RAP
CCS trunks	OOS, MTCE, DSBLD
XAT ports	No default.

All other OOS statuses must be removed by explicitly stating the status to be deleted from the trunk. Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Messages manual to determine valid states for each port type.

For XAT ports, any manual state will be deleted if no state is specified. In addition, the DSLINIT and LVL2ERR states will be deleted, if possible.

Status subfields are always separated by a single comma, even if in-between subfields are omitted (as in OOS,LKDO).

If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

`s` = Facility numbers. Valid value(s):
`0` = Restore channels 1 through 24.
`1` = Restore channels 25 through 48.

When used with the DEN identifier, this option specifies the facility to be restored. It is only valid for DFI-2 hardware. The DEN identifier must have the channel set to ALL. Refer to the DEN identifier for additional information.

`t` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Basic state. Valid value(s):
`ALL` = If entered no other status fields need be specified and all existing status information (primary and pending) will be removed for the specified trunk(s). This will result in the trunk(s) being placed in-service (IS). Care should be exercised when using this option since restoring trunks that are OOS MTCE FE or FAF could result in undesired effects (that is, PORTLA audit failures and so forth).
`OOS` = Out-of-service (default).

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x = Qualifier (choose one or omit). Valid value(s):
BLKD = Blocked. If variable 'w' is not specified, it will be defaulted to OOS.
CADN = Circuit administration. If variable 'w' is not specified, it will be defaulted to OOS.

If CADN is specified, the operational restriction of DSBLD or LKDO must also be specified.
DSLINIT = DSL initialization. If variable 'w' is not specified, it will be defaulted to OOS.
MTCE = Maintenance. If variable 'w' is not specified, it will be defaulted to OOS.
PPSRV = Pre/post service. If variable 'w' is not specified, it will be defaulted to OOS.
TMT = Traffic management (valid only for outgoing trunks). If variable 'w' is not specified, it will be defaulted to OOS.

y = Operational restrictions (choose one or omit). Valid value(s):
DCHOOS = D-channel is OOS. If variable 'x' is not specified, it will be defaulted to MTCE.
DSBLD = Disabled (busies outgoing calls and causes seizure toward far end office). If variable 'x' is not specified, it will be defaulted to MTCE.
HW = High and wet. If variable 'x' is not specified, it will be defaulted to MTCE.
LKDO = Locked out (busies outgoing calls only). If variable 'x' is not specified, it will be defaulted to MTCE.
LVL2ERR = Level 2 protocol error. If variable 'x' is not specified, it will be defaulted to MTCE.
LVL3ERR = Level 3 protocol error. If variable 'x' is not specified, it will be defaulted to MTCE.
RAP = Announcement port. If variable 'x' is not specified, it will be defaulted to MTCE.

z = Supplementary information (choose one or omit). Valid value(s):
AML = Automatic maintenance limit.
AUDIT = Audit detected problem.
CAMA = Central automatic message accounting.
CAROT = Centralized automatic reporting on trunks.
CDI = Control and data interface.
CKT = Circuit.
CTTU = Central trunk testing unit.
DFI = Digital facility interface.
DS1OOS = OOS because DS1 is OOS.
ECFAIL = Failure to link L3 dynamic data.
ERATC = Trunk error analysis errors detected.
ERATP = Trunk error analysis all tests passed.
FORPOT = Foreign potential.
GRID = Line unit grid.
IAA = Ineffective attempt analysis.
L2QLTY = Poor level 2 transmission quality.
PCTF = Per-call test failure.
PPM = Periodic pulse metering.
PROV = Unable to provision TR303 port.
PSU = Packet switch unit.
PVELBK = Protocol handler voice encoding loopback test failed.
RESTART = Q.931 RESTART message.
REX = Routine exercise.
RO = Routine/other reasons.

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ROTF = Operational test failure.
RSMMSA = Remote switching module (RSM) in module stand-alone mode (MSA) of operation.
SCC = Switching Control Center.
SERVICE = Q.931 SERVICE message.
SPARED = Port involved in an ISLU sparing configuration.
TICOM = Treated interface common circuit.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble.
TRKBD = Trunk board.
TRKCT = Trunk circuit.

a[1] = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
ALL = If ALL is requested, all channels on the VT1.5 facility will have the specified OOS status deleted.

i[1] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
ALL = If ALL is requested, all members on the PSU channel group will have the specified OOS status deleted.

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m[1] = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

ALL = If ALL is requested, all channels on the PLTU facility will have the specified OOS status deleted.

q[1] = Equipment number. Valid value(s):

```
ATMPP=c-i[1]-y[1]-z[1]
DEN=h-i-j-k[,FAC=s]
ILEN=c-t-u-v
INEN=c-b[1]-u-v
MLHG=l-m
NEN=c-b[1]-c[1]-d[1]-e[1]-f[1]-g[1]-h[1]
OIUEN=c-t[1]-u[1]-v[1]-w[1]-f[1]-x[1]-p[1]
PKTDN=n
PLTEN=c-l[1]-m[1]-n[1]-o[1]
PRIGRP=a[1][,CH=h]
PSUEN=c-i[1]-j[1]-k[1]-l[1]
SLEN=c-p-q-r
TEN=c-d-e-f-g
TG=a
TKGMN=a-b[&&o]
VTRK=c-r[1]-s[1]
```

r[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u[1] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v[1] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w[1] = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

x[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y[1] = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z[1] = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the RST:TRK output message.

If the trunk to be restored is controlled by another process, the port will be camped on (refer to the REPT:CAMPON output message). The camp-on can be stopped by using the STP:CAMPON input message that aborts the port restoration.

RL = Retry later. Request denied, probably due to system load. The OP:JOBSTATUS input message can be used to determine if the RL was because the maximum number of jobs are active.

5. REFERENCES

Input Message(s):

```
OP:JOBSTATUS
RMV:TRK
STP:CAMPON
```

Output Message(s):

```
REPT:CAMPON
REPT:TRK-SUM
RST:TRK
```

Input Appendix(es):

```
APP:RANGES
```

Output Appendix(es):

```
APP:PORT-STATUS
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-190-104 *ISDN Feature Description*
235-200-115 *CNI Common Channel Signaling*

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235-200-116 *Signaling Gateway Common Channel Signaling*
235-900-341 *National ISDN Basic Rate Interface Specification*

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RST:TTFCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a transmission test facility common (TTFCOM) board in a global digital service unit (GDSU) to service.

2. FORMAT

```
RST:TTFCOM=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module (SM) number.

`b` = GDSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been received. Followed by an RST:TTFCOM output message.

5. REFERENCES

Output Message(s):

`RST:TTFCOM`

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RST:TTY

Software Release: 5E15 and later
Command Group: SM
Application: 5,3B
Type: Input

1. PURPOSE

Unconditionally restores the specified teletypewriter (TTY) to service.

Note: The input/output processor (IOP) and the teletypewriter controller (TTYC) must be in service before the TTY can be restored.

TTY is a subdevice of TTYC. Restoring a TTY by using RST:TTY a! has the same effect as using RST:TTY a;UCL!

2. FORMAT

```
RST:TTY=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:TTY output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTY
RMV:TTYC
RST:IOP
RST:TTYC
```

Output Message(s):

```
DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTY
RMV:TTYC
```

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```
RST:IOP
RST:TTY
RST:TTYC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:TTYC

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a teletypewriter controller (TTYC) to service. If restored conditionally, a TTYC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is done on the unit to be restored.

Note: The input output processor (IOP) must be in service before the TTYC can be restored.

2. FORMAT

```
RST:TTYC=a[[:UCL][,CONT]|[:RAW][[:DATA][,TLP][,CONT]]];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restores only the TTYC. The default is to restore the TTYC and all associated teletypewriters.

`RAW` = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

`TLP` = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

`UCL` = Unconditional restoration. The default is conditional restoration.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:TTYC output message.

5. REFERENCES

Input Message(s):

```
DGN:IOP
DGN:TTYC
RMV:IOP
```

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```
RMV:TTYC
RST:IOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTYC
RST:IOP
RST:TTYC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:TUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a trunk unit channel board (TUCHBD) to the active state.

2. FORMAT

```
RST:TUCHBD=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run on all trunk equipment number (TEN) circuits on the board. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module number.

`b` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Trunk circuit/channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:TUCHBD output message.

5. REFERENCES

Output Message(s):

`RST:TUCHBD`

Input Appendix(es):

`APP:RANGES`

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RST:UCONF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a universal conference (UCONF) circuit board in a global digital service unit (GDSU) to service.

2. FORMAT

```
RST:UCONF=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module number.

`b` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Digital service unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:UCONF output message.

5. REFERENCES

Output Message(s):

`RST:UCONF`

Input Appendix(es):

`APP:RANGES`

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RST:UMBIL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a host umbilical (UMBIL) circuit be restored to service. This message is applicable for host umbilicals terminating on a digital line and trunk unit (DLTU) or on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a restore of a host facility (HFAC) or a DS1 facility.

WARNING: A restoration of an UMBIL while the UMBIL is out of service may preempt maintenance activity on the UMBIL.

2. FORMAT

```
RST:UMBIL=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the restore.

`a` = Host Switch Module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Remote Switch Module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = UMBIL number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. A RST:UMBIL output message will follow.
`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.
`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:UMBIL
STP:UMBIL
RMV:UMBIL
```

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Output Message(s):

```
RST:UMBIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1740,xxx,yyy (HOST UMBILICALS (1 - 10))
1741,xxx,yyy (HOST UMBILICALS (11 - 20))

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RST:UTD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a universal tone decoder (UTD) board, in the local digital service unit, to service.

2. FORMAT

```
RST:UTD=a-b-c-d [,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module (SM) number.

`b` = Local digital service unit (DSU) number (0).

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = UTD number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:UTD output message.

5. REFERENCES

Output Message(s):

`RST:UTD`

Input Appendix(es):

`APP:RANGES`

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RST:UTG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a universal tone generator (UTG) board, in the local digital service unit, to service.

2. FORMAT

```
RST:UTG=a-b-c-d[,UCL];
```

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

`UCL` = Unconditionally restores without diagnosis.

`a` = Switching module (SM) number.

`b` = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:UTG output message.

5. REFERENCES

Output Message(s):

`RST:UTG`

Input Appendix(es):

`APP:RANGES`

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RST:VIOP

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an virtual input/output processor (VIOP) be restored to service.

If restored conditionally, an VIOP diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

```
RST:VIOP=a[:UCL][,CONT];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restore only the VIOP.

The default is to restore the VIOP and all associated virtual peripheral controllers.

`UCL` = Restore unconditionally. Default is conditional restoration.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:VIOP output message.

5. REFERENCES

Input Message(s):

`RMV:VIOP`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
COMMON PROCESSOR

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RST:VNCR

Software Release: 5E15 and later
Command Group: SM
Application: 7
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a virtual network conference resource (VNCR) on a call feature server (CFS).

If restored conditionally no diagnostics will be run. This is a virtual circuit.

2. FORMAT

```
RST:VNCR=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally restores.
a	= Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the RST:VNCR output message.

5. REFERENCES

Output Message(s):

RST:VNCR

Input Appendix(es):

APP:RANGES

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RST:VT15

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a virtual tributary - level 1.5 (VT15) be restored to service.

2. FORMAT

```
RST:VT15=a-b-c-d-e-f-g[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally without first removing the VT15 circuit.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Optical carrier - level 3 (OC-3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the RST:VT15 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
ABT:VT15
STP:VT15
```

Output Message(s):

```
RST:VT15
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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RST:VT1FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be restored to service.

WARNING: An unconditional restoration of a VT1FAC while the VT1FAC is out of service may preempt maintenance activity on the VT1FAC.

2. FORMAT

```
RST:VT1FAC=a-b-c-d-e-f-g[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Restore unconditionally.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

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PF = Printout follows. Followed by the RST:VT1FAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:VT1FAC
STP:VT1FAC

Output Message(s):

RST:VT1FAC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)

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RST:VTTY

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Unconditionally restores the specified virtual teletypewriter (VTTY) to service.

The virtual input/output processor (VIOP) and the virtual teletypewriter controller (VTTYC) must be in service before the VTTY can be restored.

VTTY is a subdevice of VTTYC. Restoring a VTTY by using `RST:VTTY=a;` has the same effect as using `RST:VTTY=a:UCL;`

2. FORMAT

```
RST:VTTY=a;
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:VTTY output message.

5. REFERENCES

Input Message(s):

```
RMV:VIOP
RMV:VTTY
RMV:VTTYC
RST:VIOP
RST:VTTYC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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RST:VTTYC

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a virtual teletypewriter controller (VTTYC) to service. If restored conditionally, a VTTYC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is done on the unit to be restored.

The virtual input output processor (VIOP) must be in service before the VTTYC can be restored.

2. FORMAT

```
RST:VTTYC=a[:UCL][,CONT];
```

3. EXPLANATION OF MESSAGE

`CONT` = Restores only the VTTYC. The default is to restore the VTTYC and all associated virtual teletypewriters.

`UCL` = Unconditional restoration. The default is conditional restoration.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:VTTYC output message.

5. REFERENCES

Input Message(s):

```
RMV:VIOP
RMV:VTTYC
RST:VIOP
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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69. RTE

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RTE:SMST

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that all output messages originating from the specified switching modules (SMs) be routed to the terminal at which this input message is entered in addition to other normal locations where such output would appear.

The switching module system test (SMST) routing can be assigned to only one terminal per SM. (If an SM is already assigned to a terminal for SMST routing, the SM cannot be assigned to any other terminal until it is released using RLS:SMST input). The SMST routing will not take effect if a message has "log only" or "discard" status. Refer to the CHG:LPS-MSGCLS input message and the OP:LPS input message.

2. FORMAT

```
RTE:SMST,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number, or lower limit of a range of SM numbers.

`b` = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. The SM is already assigned to another terminal.

`OK` = Good. The request was accepted and completed. The SM's output messages will be routed to the terminal where this input was entered.

`RL` = Retry later. May also include:
- `UNABLE TO SERVICE REQUEST` = The receiving process is not running. Manually invoke HMimst process and try again.

5. REFERENCES

Input Message(s):

```
CHG:LPS-MSGCLS
OP:LPS
OP:SMST
RLS:SMST
```

Output Message(s):

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```
OP:SMST
```

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70. RTR

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RTR:CALLMON

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the call monitor alarm indicator be retired.

2. FORMAT

```
RTR:CALLMON,ALARM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

```
INH:CALLMON
ALW:CALLMON
OP:CALLMON
SET:CALLMON
CLR:CALLMON
```

Output Message(s):

```
REPT:CALLMON-CMR
REPT:CALLMON-VTC
OP:CALLMON
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

116 (MISCELLANEOUS)

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71. SCHED

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SCHED:APT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Schedules the time in which trunk automatic progression testing (APT) is to be run for a given 24-hour period. The starting time and duration of the test are expressed in hours and minutes on a 24-hour clock. These parameters are only in effect for one period of APT testing.

2. FORMAT

```
SCHED:APT[,TIME=a-b][,DUR=c][,TKGMN=d-e];
```

3. EXPLANATION OF MESSAGE

`a` = The hour after midnight when APT is to be started (0-23).

`b` = The minutes after the hour when APT is to be run (0-59).

`c` = Duration in hours that APT is to be run (0-8). When duration is not specified, or when specifying a duration of zero (0) hours, APT will not run. However, APT's schedule will be refreshed immediately from the switch database into application memory.

`d` = The trunk group on which to start the next APT testing.

`e` = The member number on which to start the next APT testing.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and the parameters have been changed. Followed by a SCHED:APT output message.

`RL` = Retry later. The request was not accepted because APT is not currently executing.

`?D` = The request has been constructed incorrectly with errors in the starting time, duration, or trunk ID fields.

5. REFERENCES

Output Message(s):

```
SCHED:APT
```

Other Manual(s):
235-900-101 *Technical Specification and System Recovery*

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SCHED:AUD-SODD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Schedules the day, time, and duration for the full static office-dependent data (SODD) audit. Overlapping entries in the schedule are not allowed, but an entry that starts at the same time that another one ends is permissible.

2. FORMAT

```
SCHED:AUD=SODD,DAY=a,STARTTIME=b,DURATION=c;
```

3. EXPLANATION OF MESSAGE

`a` = Run the full audit on a specified day. Valid value(s):

`MON`	= Monday.
`TUE`	= Tuesday.
`WED`	= Wednesday.
`THU`	= Thursday.
`FRI`	= Friday.
`SAT`	= Saturday.
`SUN`	= Sunday.
`ALL`	= All days.

`b` = The hour the full SODD audit is to start in the form HH:MM [hour (0-23), minute (0-59)].

`c` = Duration for which the full SODD audit is to run in the form HH:MM [hour (1-24), minute (0-59)]. Duration must be at least one hour. To schedule a continuous audit, `STARTTIME` should be set to 1-00, `DURATION` set to 24-00, and `DAY` set to `ALL`.

4. SYSTEM RESPONSE

`PF` = Printout follows. Valid value is:

`- OP AUD=SODD SCHED MESSAGE FOLLOWS` = Followed by an OP:AUD-SODD-SCH output message.

5. REFERENCES

Input Message(s):

```
ALW:AUD-SODD
INH:AUD-SODD
OP:AUD-ERRLOG
```

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```
OP:AUD-SODD
STP:AUD-SODD
```

Output Message(s):

```
OP:AUD-SODD-SCH
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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SCHED:BKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a new automated system backup to be scheduled or requests all previously scheduled backups to be rescheduled. SCHED:BKUP adds backup entries to the system cron table file so that the backups can be automatically executed by the cron daemon process. Refer to OP:BKUP to display the currently scheduled backups and CLR:BKUP to unschedule a backup.

Format 1 is used to schedule an automated system backup to be run weekly or monthly by the cron daemon process.

Format 2 is used to reschedule all previously scheduled backups during a generic retrofit. SCHED:BKUP will delete all current automated system backup jobs from the cron table and reschedule all automated system backup jobs listed in the schedule file managed by the automated system backup processes. This format may also be used to reschedule backups if the system cron table file is corrupt.

This message will not allow a backup to be scheduled within 8 hours of a currently scheduled backup.

The automated system backup process will only execute one backup at a time. Care must be taken when scheduling both weekly and monthly backups. It is possible to schedule a weekly and monthly backup to run at the same time. If this occurs, the automated system backup process will only perform the first backup initiated by the cron process.

2. FORMAT

```
[1]    SCHED:BKUP:a:DATA,DAY=b,TIME=c[,FN="d"];

[2]    SCHED:BKUP:ALL;
```

3. EXPLANATION OF MESSAGE

`a` = Interval. Valid value(s):
- `WEEK` = Weekly backup is to be scheduled.
- `MONTH` = Monthly backup is to be scheduled.

`b` = Day. If variable '`a`' is equal to '`WEEK`', then this variable is the day of the week. Valid value(s):
- `0` = Sunday.
- `1` = Monday.
- `2` = Tuesday.
- `3` = Wednesday.
- `4` = Thursday.
- `5` = Friday.
- `6` = Saturday.

If variable '`a`' is equal to '`MONTH`', then this variable is the day of the month (1-31). The number

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of days in each month should be considered when scheduling a monthly backup. For example, not every month has 31 days. Therefore, a backup scheduled on the 31st day of the month will not run every month.

`c` = Time of day the backup is to begin in hours and minutes (hhmm) between 0000 and 2359. Example, 2200 is 10:00 PM.

Care should be taken when selecting the time that the backup will be run. It is possible for a backup to be skipped if scheduled during the time change into or out of daylight saving time (DST).

`d` = Backup option file name. This file must reside in the /no5text/bkup/autobkup directory. If a file name is not specified, the default backup option file name, bkup.opts, will be used. This variable must not be specified as a full or relative pathname.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the SCHED:BKUP output message.

5. REFERENCES

Input Message(s):

```
ALW:AUTOBKUP
CLR:BKUP
INH:AUTOBKUP
OP:BKUP
SET:BKUP
STP:AUTOBKUP
```

Output Message(s):

```
SCHED:BKUP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance Procedures*

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SCHED:ECDAUD

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Request that the on-switch ECD audit be scheduled for automatic execution.

2. FORMAT

```
SCHED:ECDAUD:STARTTIME=a-b,{DAY=c,DATE=d};
```

3. EXPLANATION OF MESSAGE

`a` = The hour for the ECD audit to start in the form hh [hour (0-23)].

`b` = The minute for the ECD audit to start in the form mm [minute (0-59)].

`c` = The day of the week for the ECD audit to be run. Valid value(s):

`MON`	= Monday.
`TUE`	= Tuesday.
`WED`	= Wednesday.
`THU`	= Thursday.
`FRI`	= Friday.
`SAT`	= Saturday.
`SUN`	= Sunday.

Note: Variables '`c`' and '`d`' are mutually exclusive.

`d` = The day of the month for the ECD audit to be run. Valid value(s) 0-28.

Note: Variables '`c`' and '`d`' are mutually exclusive.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the SCHED:ECDAUD output message.

5. REFERENCES

Input Message(s):

```
STOP:ECDAUD
INH:ECDAUD
ALW:ECDAUD
EXC:ECDAUD
```

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```
OP:ECDAUD
```

Output Message(s):

```
SCHED:ECDAUD
```

Other Manual(s):
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance Manual*

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SCHED:FACR

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that the feature activation counting and reconciliation (FACR) audit be scheduled for execution at a specific date and hour. All scheduled entries will be carried across a calendar year.

2. FORMAT

```
[1]    SCHED:FACR:{OFC|UNOFC},TIME=a-b-c;
       ____________________________________________________________

[2]    SCHED:FACR:APPL={5ECAP|5ETOOL},TIME=a-b-c;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`APPL` = Request to run a FACR special application audit.

`OFC` = Request for an official run of the FACR audit.

`UNOFC` = Request for an unofficial run of the FACR audit. The output from the audit is restricted for use by the service provider only.

`a` = Schedule type. Valid value(s):
- `(1-12)` = Month of the requested execution time.
- `MONTHLY` = Requested execution to repeat every month on day "`b`" (APPL only).
- `WEEKLY` = Requested execution to repeat every week on day "`b`" (APPL only).

`b` = Day of the month or week. Valid value(s):
- `(1-31)` = Day of the month for requested execution time.
- `(0-6)` = Day of the week for execution when WEEKLY. 0 refers to Sunday.

`c` = Hour of the requested execution time (0-5 or 18-23).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the SCHED:FACR output message.

5. REFERENCES

Input Message(s):

```
OP:FACR
DEL:FACR
```

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Output Message(s):

```
SCHED:FACR
```

Other Manual(s):
235-040-100 *OA&M Planning Guide*
235-100-125 *System Description*

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SCHED:GRC

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) job be rescheduled. This input message allows the user to change the options specified when the GRC job was scheduled. If the GRC job has been split, SECT must be provided.

RDATE and RTIME should be specified together. If RDATE is provided without RTIME, RTIME defaults to midnight. If RDATE and RTIME are not provided or RTIME is specified without RDATE, the default is the current date and time.

2. FORMAT

```
SCHED:GRC,NAME=a[,SECT=b],MODE=c[,VERBOSE=d][,MAXERR=e]
     [,RDATE=ff-ff-ff,RTIME=gg-gg];
```

3. EXPLANATION OF MESSAGE

`a` = GRC name (up to 10 characters).

`b` = GRC section number.

`c` = Mode of job to be rescheduled. Valid value(s):
`UPDATE` = Update operation.
`BACKOUT` = Backout operation.

`d` = Print one-line logging messages on the receive-only printer (ROP) for each update or backout of a line for this GRC job. Valid value(s):
`Y` = Enables the verbose option.
`N` = Disables the verbose option.

`e` = Allow a maximum of this many errors.

`f` = Release date in the form month-day-year. (month of the year [01-12], day of the month [01-31], last two digits of year [00-99]).

`g` = Release time, in the form hour-minute [hour (00-23), minute (00-59)].

4. SYSTEM RESPONSE

`PF` = Printout follows. A GRC:STATUS output message will follow indicating the beginning of the operation.

`NG` = No good. The request was denied. A GRC:ERROR output message will provide the reason

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for the failure.

5. REFERENCES

Input Message(s):

```
CLR:GRC
EXC:GRC
STP:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-070-100 *Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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72. SET

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SET:ALINK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an out-of-service line unit model 2 (LU2) or a line unit model 3 (LU3) A-link (ALINK) be manually set to a specific state. This allows the A-link either to be placed into a deferred maintenance state in which it has no effect on system indicators, or to be returned to the normal maintenance state.

2. FORMAT

```
SET:ALINK=a-b-c-d-e,{DEFR|RMVD};
```

3. EXPLANATION OF MESSAGE

`DEFR` = Deferred. Place the link into deferred maintenance state.

`RMVD` = Removed. Place the link into standard out-of-service maintenance state.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. May also include:

- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the SET:ALINK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Output Message(s):

SET:ALINK

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(LINE UNIT CONCENTRATOR)

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SET:ALMMDE

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that the alarm retire mode (ALMMDE) be set to either automatic or manual. Format 1 is for the local office. Format 2 is for remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) sites with the alarm output option. Format 3 is for remote peripheral sites with a remote alarm section (RAS).

2. FORMAT

```
[1]    SET:ALMMDE=a;

[2]    SET:ALMMDE=a,RBPSC,SM=b;

[3]    SET:ALMMDE=a,RAS,SITE=c;
```

3. EXPLANATION OF MESSAGE

`AUTO` = Automatic retire mode. At the local office, audible alarms will retire automatically in eight seconds or when manually retired--whichever occurs first. At an RSM, ORM, TRM, or remote peripheral site, audible alarms will retire automatically in five seconds to five minutes or when manually retired--whichever occurs first.

`MAN` = Manual retire mode. At the local office, critical and major audibles will sound until manually retired. At a control/display terminal, use the alarm retire function key to retire alarms. At RSM, ORM, TRM, or remote peripheral sites, the critical, major, and minor audibles will sound until manually retired by pressing the alarm retire button on the remote alarm and status panel.

`a` = New alarm retire mode (AUTO or MAN).

`b` = Switching module (SM) number of the module containing the MSU and the remote alarm status circuit (ASC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Remote peripheral site number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request was not accepted and the retire mode remains unchanged or option not available.

`PF` = Printout follows. Followed by the SET:ALMMDE output message.

`RL` = Retry later. System is in overload.

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5. REFERENCES

Output Message(s):

```
REPT:ALMMDE
SET:ALMMDE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

105,106 (BLDG/POWER & ALARM CNTRLS)
1400 (RSM BLDG/PWR ALARMS)
1420 (RAS ALARMS)

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SET:AMA-CONFIG

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that an automatic message accounting (AMA) partition be equipped or unequipped for either the ST1 or ST2 data stream.

Note: After this message is entered, make backup tapes to prevent loss of the updated AMA configuration files in the event of a reload from tape.

2. FORMAT

```
SET:AMA:CONFIG:{ST1|ST2},PART=a,{EQUIP[,NOINIT]|UNEQUIP};
```

3. EXPLANATION OF MESSAGE

`EQUIP` = Make the partition accessible to the data stream indicated.

`NOINIT` = Do not initialize the partition.

`ST1` = AMA data to be written to the ST1 data stream.

`ST2` = AMA data to be written to the ST2 data stream.

`UNEQUIP` = Make the partition inaccessible to the data stream indicated.

`a` = Partition number.

4. SYSTEM RESPONSE

`IP` = In progress. No errors or inconsistencies were found in the input data.

`PF` = Printout follows. An error or inconsistency was found in the input data.

`RL` = Retry later. Either the process could not attach to a protected application segment, or another SET:AMA-CONFIG process is in progress.

5. REFERENCES

Input Message(s):

```
OP:AMA-CONFIG
```

Output Message(s):

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```
REPT:AMA-CONFIG
```

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SET:AMA-CONTROL

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that one or two of the automatic message accounting (AMA) control file parameters be set.

2. FORMAT

```
SET:AMA:CONTROL[:ST1|:ST2],{OFFICEID=a|EXPDATE=b|START=c-d|STOP=e-f
|MT=g|OPTION=h|HOCPSWD=i|BACKUPSWD=j|TAPEID="k"};
```

3. EXPLANATION OF MESSAGE

`ST1` = Send AMA data to the ST1 data stream.

`ST2` = Send AMA data to the ST2 data stream.
Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

`a` = Office identification number (six digits).

`b` = Number of days (1-99) until AMA tape expires.

`c` = Hour of start time.

`d` = Minute of start time.

`e` = Hour of stop time.

`f` = Minute of stop time.

`g` = Default tape drive number for the automatic tape writing process.

`h` = Option. Valid value(s):
`TAPE` = Tape option.
`TP` = Teleprocessing option.
`AMADNS1` = AMA data networking services phase 1.

`i` = Host collector (HOC) password (ten digits).

`j` = Backup HOC password (ten digits).

`k` = Tape ID (seventeen characters or fewer).
Note: Refer to Local Switching System General Requirements (LSSGR) for rules defining the construction of a tape identifier.

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Notice that double quotes must be used to enclose the tape ID variable in the input message. It is recommended that lower case letters not be used to compose the tape ID variable.

4. SYSTEM RESPONSE

NG = No good. Data stream checks failed.

PF = Printout follows. Request accepted. The option(s) selected are being updated. When the request is completed, the contents of the AMA control file will be output by the REPT:AMA:CONTL output message. If less than 17 characters are supplied, trailing blanks will be used.

RL = Retry later. A tape or teleprocessing session is currently in progress. Try again after the session terminates.

5. REFERENCES

Input Message(s):

```
ALW:AMA-AUTOST
ALW:AMA-SESSION
INH:AMA-AUTOST
INH:AMA-SESSION
OP:AMA-CONTROLF
OP:AMA-STREAM
```

Output Message(s):

```
REPT:AMA-CONT
```

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SET:AMA-STREAM

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic message accounting (AMA) office stream configuration be set.

2. FORMAT

```
SET:AMA:STREAM,{ST1|ST2|DUAL};
```

3. EXPLANATION OF MESSAGE

`DUAL` = Send all AMA data to both ST1 and ST2 data steams.

`ST1` = Send AMA data to the ST1 data stream.

`ST2` = Send AMA data to the ST2 data stream.

4. SYSTEM RESPONSE

`NG` = No Good. A value of ST2 is not allowed if AMA data networking services processing is active.

`OK` = Good. Data stream indicator was successfully set up.

`RL` = Retry later. Process could not attach to a protected application segment, or a disk copy of the data stream indicator could not be opened or written.

`?I` = Invalid data stream value was specified in the input message.

5. REFERENCES

Input Message(s):

```
OP:AMA-STREAM
```

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SET:ARC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that an alternate route cancellation (ARC) control at an office be set or modified. The ARC control is initiated or modified for routine or all levels of precedence.

This message is valid only for defense switched network (DSN) switches.

2. FORMAT

```
SET:ARC,OFFICE=a,TYPE=b,TRAFFIC=c[,RTNANN=d];
```

3. EXPLANATION OF MESSAGE

`a` = Office name.

`b` = Control type to be applied. Valid value(s):

- `CANF` =Cancel from. Cancel calls that terminate in a given adjacent office but could not complete with the direct route. This control restricts traffic from overflowing to its alternates.
- `CANT` = Cancel to. Cause traffic to skip its alternate route through the given office. This control forces calls that do not terminate at the given office to skip the direct trunk groups to that office.

`c` = Precedence level subject to CANF or CANT control. Valid value(s):

- `ALL` = All levels of precedence, for example, flash override, flash, immediate, priority, and routine.
- `RTN` = Routine traffic only.

`d` = Routine announcement (RTNANN) treatment to be given if blocking occurs for routine (RTN) traffic only (refer to variable 'c'). Valid value(s):

- `EANN1` = Emergency announcement 1.
- `EANN2` = Emergency announcement 2.
- `NCA` = No circuit announcement (default).

Note: When a precedence call is blocked as a result of ARC control, the announcement treatment is always the blocked precedence announcement.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `- INVALID REQUEST` = This system is not equipped to handle the request entered.

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`PF` = Printout follows. Followed by the SET:ARC output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

`CLR:ARC`
`OP:ARC`

Output Message(s):

`SET:ARC`

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

(DSN NM EXCEPTION)
(OVERLOAD)

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SET:ASPTQ-A

Software Release: 5E15 only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message. Some fields of certain parameters (the digit related parameters with the optional INFO keyword) have default values that are used if the optional field is not set. If the parameter is presently set, the present values of the optional fields are maintained. If the parameter is not presently set, the default values given below are used for the optional fields.

Parameter	Default
numbering plan	ISDN
presentation restriction	Allowed
screening indicator	Network provided
nature of number:	
	National
	Unique national
	Calling party automatic number identifica tion (ANI) national

2. FORMAT

```
[1]    SET:ASPTQ,USERID,{DN=a|BRI=a-b|TGID=c|PFID=d};

[2]    SET:ASPTQ,BEARCAP=e;

[3]    SET:ASPTQ,CLDPTY=f[,INFO=g-h];

[4]    SET:ASPTQ,CLDTYPE=i;

[5]    SET:ASPTQ,LATA=j;

[6]    SET:ASPTQ,TRIGTYPE=k;

[7]    SET:ASPTQ,CHGNBR=l[,INFO=m-h];

[8]    SET:ASPTQ,CLGPTY=n[,INFO=o-h-p-q];

[9]    SET:ASPTQ,CLGBGID=r-s-t;

[10]   SET:ASPTQ,CHGTYPE=u;

[11]   SET:ASPTQ,PRMCAR=v-w;

[12]   SET:ASPTQ,ACCCD=x;

[13]   SET:ASPTQ,COLLADR=y[,INFO=z-h];

[14]   SET:ASPTQ,COLLDIGS=a[1];

[15]   SET:ASPTQ,VERTSRVCD=b[1];

[16]   SET:ASPTQ,TCMARK=c[1];
```

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[17] SET:ASPTQ,ORIGCLDPTY=d[1][,INFO=e[1]-h-p-q];

[18] SET:ASPTQ,RDIRPTY=f[1][,INFO=l-h-m-n];

[19] SET:ASPTQ,RDIRINFO=g[1]-h[1]-i[1];

[20] SET:ASPTQ,AMP[,TIME=j[1]-k[1]-l[1]-m[1]-n[1]];

[21] SET:ASPTQ,CLEARCS=o[1];

[22] SET:ASPTQ,FAILCAUSE=p[1];

[23] SET:ASPTQ,GLOBTITLE=q[1];

[24] SET:ASPTQ,GENNAME=u[1];

[25] SET:ASPTQ,TIMER=v[1];

[26] SET:ASPTQ,GENLIST=w[1]-x[1]-o-h-p;

[27] SET:ASPTQ,CLOSECAUSE=y[1];

[28] SET:ASPTQ,NOTIFYIND=z[1];

[29] SET:ASPTQ,BUSYCAUSE=a[2]-b[2]-c[2];

[30] SET:ASPTQ,TRANTYPE=d[2];

[31] SET:ASPTQ,AMAMSMENT,DATE=e[2],TIME=f[2],DUR=g[2],GUARD=h[2];

[32] SET:ASPTQ,OPC=i[2];

[33] SET:ASPTQ,BUSYTYPE=j[2];

[34] SET:ASPTQ,DISCCAUSE=k[2];

[35] SET:ASPTQ,DTMFDGTDET=l[2];

[36] SET:ASPTQ,EXTENSION,AA=m[2],{ACCTYPE=n[2]|LANI=o[2]}[,INFO=p[2]-q[2]-r[2]-s[2]];

[37] SET:ASPTQ,PLATFORM=t[2];

3. EXPLANATION OF MESSAGE

Note: An "*" indicates a default value to be used when the value is not set by the user and is not presently set. All fields are given for each parameter even if a particular field has been previously described.

AMAMSMENT = AMA measurement parameter.

a = Directory number.

b = Service profile ID (20 digits maximum).

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`c` = Trunk group ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Private facility ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Bearer capability. Valid value(s):

`56KBPS`	= 56 kilobits per second.
`64KBPS`	= 64 kilobits per second.
`AUDIO`	= 3.1 kHz audio.
`SPEECH`	= Speech.

`f` = Called party ID digits (15 digits maximum).

`g` = Nature of number for called type. Valid value(s):

`950`	= 950+ call.
`CUTTHRU`	= No address present cut through to carrier.
`INTL`	= International number.
`INTOPR`	= International number, operator requested.
`NA`	= Not applicable.
`NADOPR`	= No address present, operator requested.
`*NAT`	= National (significant) number.
`NATOPR`	= National number, operator requested.
`SSNBR`	= Subscriber number.
`SSOPR`	= Subscriber number, operator requested.
`TESTLN`	= Test line test code.

`h` = Numbering plan. Valid value(s):

`*ISDN`	= ISDN numbering plan.
`NA`	= Unknown or not applicable.
`PRIV`	= Private numbering plan.
Note:	Default values ("*") do not apply to the generic address list parameter therefore must be set by the user.

`i` = Called party station type number (0-99).

`j` = LATA digits (3 digits maximum).

`k` = Trigger criteria type. Valid value(s):

`2X`	= nxx.
`6X`	= nxx-xxxx.
`CCNP6X`	= Country code npa-nxx-xxxx.
`CUACCESS`	= Customized access.
`FEATACT`	= Feature activator.
`AFR`	= Automatic flexible routing.
`N11`	= n11.
`NP0X`	= npa-n.
`NP1X`	= npa-nx.

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NP2X = npa-nxx.
NP3X = npa-nxx-x.
NP4X = npa-nxx-xx.
NP5X = npa-nxx-xxx.
NP6X = npa-nxx-xxxx.
NPA = npa.
OCLDPTYBSY = Origination called party busy.
OHIMMED = Off-hook immediate.
OHDELAY = Off-hook delay.
ONOANS = Origination no answer.
SETPRI = Channel setup PRI.
SHRDIO = Shared inter office trunk.
TBUSY = Termination busy.
TNOANS = Termination no answer.
TRMATMPT = Termination attempt.
TRUNKGRP = Trunk group.
VERTSC = Vertical service code.

l = Charge number digits (10 digits maximum).

m = Nature of number for charge type. Valid value(s):
APN = Action pointer number.
DNAANI = Called party ANI not included.
DNATANI = Called party ANI; national number.
DSSANI = Called party ANI; subscriber number.
NAANI = ANI not available or not provided.
*NATANI = Calling party ANI national number.
SSANI = Calling party ANI; subscriber number.

n = Calling party ID digits (15 digits maximum).

o = Nature of number for calling type. Valid value(s):
INTL = Unique international number.
NA = Not applicable or unknown.
*NAT = Unique national (significant) number.
NUINTL = Non-unique international number.
NUNAT = Non-unique national number.
NUSSNBR = Non-unique subscriber number.
SSNBR = Unique subscriber number.
TESTLN = Test line test code.
Note: Default values ("*") do not apply to the generic address list parameter therefore must be set by the user.

p = Presentation restriction indicator. Valid value(s):
*ALW = Presentation allowed.
RST = Presentation restricted.
UNA = Number unavailable.
Note: Default values ("*") do not apply to the generic address list parameter

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therefore must be set by the user.

q = Screening indicator. Valid value(s):
- *NETP = Network provided.
- UPNOT = User provided not screened.
- UPPASS = User provided passed screening.

r = Calling party business group ID (range of 0-16777215).

s = Attendant status. Valid value(s):
- ATTEND = Attendant line.
- NOATTEND = No attendant or no indication.

t = Party selector. Valid value(s):
- CGPN = Calling party number.
- RDPN = Redirecting number.

u = Charge party station type number (0-99).

v = Primary carrier ID (4 digits maximum).

w = Primary carrier selection. Valid value(s):
- CALL = Selected carrier identification code presubscribed and input by calling party.
- NCALL = Selected carrier identification code presubscribed and not input by calling party.
- NIND = No indication.
- NKCALL = Selected carrier identification code presubscribed and no indication of whether input by calling party.
- NPRE = Selected carrier identification code not presubscribed and input by calling party.

x = Access code digits (5 digits maximum).

y = Collected address information digits (15 digits maximum).

z = Nature of number for called type. Valid value(s):
- 950 = 950+ call.
- CUTTHRU = No address present cut through to carrier.
- INTL = International number.
- INTOPR = International number, operator requested.
- NA = Not applicable.
- NADOPR = No address present, operator requested.
- *NAT = National (significant) number.
- NATOPR = National number, operator requested.
- SSNBR = Subscriber number.
- SSOPR = Subscriber number, operator requested.
- TESTLN = Test line test code.

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a[1] = Collected digits (32 digits maximum).

b[1] = Vertical service code digits (10 digits maximum).

c[1] = Traveling class mark digits (2 digits maximum).

d[1] = Original called party ID digits (15 digits maximum).

e[1] = Nature of number for calling type. Valid value(s):

INTL	= Unique international number.
NA	= Not applicable or unknown.
*NAT	= Unique national (significant) number.
NUINTL	= Non-unique international number.
NUNAT	= Non-unique national number.
NUSSNBR	= Non-unique subscriber number.
SSNBR	= Unique subscriber number.
TESTLN	= Test line test code.

f[1] = Redirecting party ID digits (15 digits maximum).

g[1] = Original redirecting reason. Valid value(s):

BSY	= User busy.
NOR	= No reply.
UNC	= Unconditional.
UNK	= Unknown or not available.

h[1] = Redirecting reason. Valid value(s):

BSY	= User busy.
NOR	= No reply.
UNC	= Unconditional.
UNK	= Unknown or not available.

i[1] = Redirection count (value of 0-15 only).

j[1] = Year. Valid value(s):

CURRENT	= Current year.
LAST	= Last year.
NEXT	= Next year.

k[1] = Month. Valid value(s):

JAN	= January.
FEB	= February.
MAR	= March.
APR	= April.
MAY	= May.
JUN	= June.
JUL	= July.

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AUG = August.
SEP = September.
OCT = October.
NOV = November.
DEC = December.

l[1] = Date (1 - 31).

m[1] = Hour (0 - 23).

n[1] = Minute. Valid value(s):
00 = 0 minutes
15 = 15 minutes
30 = 30 minutes
45 = 45 minutes

o[1] = Clear cause. Valid value(s):
ABAN = Abandon.
ABORT = Abort.
CAPFAIL = Capability failure.
CHBUSY = Channels busy.
CLDPTYANS = Called party answered.
FAIL = Failure.
ICRESP = Invalid caller response.
INVCD = Invalid code.
IPTMOUT = IP timeout.
ISDNTO = ISDN timeout.
NORM = Normal.
PROTERR = Protocol error.
RSCAN = Resource canceled.
RSRCNA = Resource not available.
RTNOTSUP = Resource type not supported.
SSERVINVK = Supervisor service invoked.
STRCANC = Send to resource canceled.
TASKREF = Task refused.
TMOUT = Timeout.
TMPFAIL = Temporary failure.

p[1] = Failure cause. Valid value(s):
HIGH = Rate too high.
UNAVAILABLE = Unavailable resource.

q[1] = Global title address digits (always 10 digits).

u[1] = Generic name presentation. Valid value(s):
ALW = Presentation allowed.
BLKTGL = Blocking toggle.

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INH = Presentation restricted.

v[1] = Time to wait for a response from the service control point (SCP) (1-10 seconds).

w[1] = Generic address signal digits (15 digits maximum).

x[1] = Generic address type of address. Values are:
- DIALEDNBR = Dialed number.
- DESTNBR = Destination number.
- SUPFAILSCR = Supplemental user provided calling address. Failed screening.
- SUPNOTSCR = Supplemental user provided calling address. Not screened.
- COMPLETNBR = Completion number.

y[1] = Close cause. Valid value(s):
- TERM = Call terminated.
- CMPL = Events and reports completed.
- UCOMM = Unexpected communication.
- ANSW = Called party answered.
- CALLFWD = Call forwarded.

z[1] = Notification indicator. Valid value(s):
- NOTIFY = Switch notification message.
- REQ = Switch request message.

a[2] = Busy cause coding standard. Valid value(s):
- CCITT = International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) standard.
- NETWK = Network specific.

b[2] = Busy cause general location. Valid value(s):
- INTNTWK = International network.
- LOCTRL = Local interface controlled by signaling link.
- LOCUNKN = Location unknown.
- PUBLU = Public network serving local user.
- PUBRU = Public network serving remote user.
- PVTLU = Private network serving local user.
- PVTRU = Private network serving remote user.
- TRNTWK = Transit network.
- USER = User.

c[2] = Busy cause value. Valid value(s):
- ADRINC = Address incomplete.
- AUNKPARM = Parameter non-existent or not implemented - accepted.
- BCNOAUTH = Bearer capability not authorized.
- BCNOIMPL = Bearer capability not implemented.
- BCUNAV = Bearer capability not presently available.

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CALLABN = Caller abandon.
CALLREJ = Call rejected.
DESTNORTE = No route to destination.
DESTOUT = Destination out of order.
DUNKPARM = Parameter non-existent or not implemented - discarded.
INFODISCD = Access information discarded.
INTWK = Interworking.
INVRSP = Improper caller response.
NBRCHG = Number changed.
NOCKT = No circuit available.
NOUSRSP = No user responding.
NRM = Normal.
NRMCLR = Normal clearing.
NSRVOPT = Service/option not implemented.
NTWKNORTE = No route to specified transit network.
NTWKOUT = Reserved for network out of order.
PARMINV = Parameter with invalid coding.
PRCLERR = Protocol error.
RDIRCTRX = Redirection counter exceeded.
SWCHCONG = Switching equipment congestion.
TMPFAIL = Temporary failure.
RQCHANUNV = Requested channel not available.
RSRC = Resource unavailable.
SRVOPT = Service/option not available.
UNALCNBR = Unallocated number.
UNKMSG = Msg type non-existent or not implemented.
USRALRT = User alerting, no answer.
USRBSY = User busy.

d[2] = Translation type (range of 0-255).

e[2] = AMA measurement start date (month, day, year) in the form mm-dd-y.

Note: Year is only the last digit of the year.

f[2] = AMA measurement start time (hour, minutes, seconds, tenths of seconds) in the form hh-mm-ss-t.

g[2] = AMA measurement connection duration (minutes, seconds, tenths of seconds) in the form mmmmm-ss-t.

h[2] = Time guard. Valid value(s):
GUARD = Timing guard allowed.
NOGUARD = No timing guard.

i[2] = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

j[2] = Busy type. Valid value(s):

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OFFRD = Call can be offered.
NOTOFFRD = Call cannot be offered.

k[2] = Disconnect cause. Valid value(s):
FAREND = Far end.

l[2] = Dial tone multi-frequency (DTMF) digits detected (4 digits maximum).

m[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

n[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

o[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

p[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

q[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

r[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

s[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

t[2] = Signaling Platform. Valid value(s):
0 = Common Network Interface (CNI) Platform
1 - 192 = Global Switching Module (GSM) Number

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- EXCEEDED xx DIGIT MAXIMUM = Too many digits entered. The allowed range for this parameter is 0-xx.
- EXCEEDED xx DIGIT MAXIMUM FOR SPID = Too many digits entered for the SPID field for this parameter. The allowed range is 0-xx.
- INVALID DIGITS = The entered digits are invalid (0-9, *, and # are allowed).

- INVALID DN DIGITS = The entered DN digits are invalid (0-9, *, and # are allowed).
- OPC IS INVALID = The entered digits are either invalid (0-9 are allowed), the number of digits entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.
- PLATFORM IS INVALID = The entered signaling platform is invalid (0 or 1 - 192 allowed.)
- xx DIGITS REQUIRED = This parameter requires xx digits."
- xx DIGITS REQUIRED FOR DN = The DN field for this parameter requires xx digits.

NO = The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to set an ASP 0.1 test query parameter. This response can also be received when attempting to set a parameter that is itself restricted by an additional feature purchase.

OK = Good. The request was accepted.

RL = Retry later. Valid value(s):
- INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):

```
CLR:ASPTQ
OP:ASPTQ
TST:ASPTQ
```

Output Message(s):

```
OP:ASPTQ
TST:ASPTQ
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-126 *Advanced Services Platform*

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SET:ASPTQ-B

Software Release: 5E16(1) only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message. Some fields of certain parameters (the digit related parameters with the optional INFO keyword) have default values that are used if the optional field is not set. If the parameter is presently set, the present values of the optional fields are maintained. If the parameter is not presently set, the default values given below are used for the optional fields.

Parameter	Default
numbering plan	ISDN
presentation restriction	Allowed
screening indicator	Network provided
nature of number:	
	National
	Unique national
	Calling party automatic number identifica tion (ANI) national

2. FORMAT

```
[1]    SET:ASPTQ,USERID,{DN=a|BRI=a-b|TGID=c|PFID=d};

[2]    SET:ASPTQ,BEARCAP=e;

[3]    SET:ASPTQ,CLDPTY=f[,INFO=g-h];

[4]    SET:ASPTQ,CLDTYPE=i;

[5]    SET:ASPTQ,LATA=j;

[6]    SET:ASPTQ,TRIGTYPE=k;

[7]    SET:ASPTQ,CHGNBR=l[,INFO=m-h];

[8]    SET:ASPTQ,CLGPTY=n[,INFO=o-h-p-q];

[9]    SET:ASPTQ,CLGBGID=r-s-t;

[10]   SET:ASPTQ,CHGTYPE=u;

[11]   SET:ASPTQ,PRMCAR=v-w;

[12]   SET:ASPTQ,ACCCD=x;

[13]   SET:ASPTQ,COLLADR=y[,INFO=z-h];

[14]   SET:ASPTQ,COLLDIGS=a[1];

[15]   SET:ASPTQ,VERTSRVCD=b[1];

[16]   SET:ASPTQ,TCMARK=c[1];
```

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[17] SET:ASPTQ,ORIGCLDPTY=d[1][,INFO=e[1]-h-p-q];

[18] SET:ASPTQ,RDIRPTY=f[1][,INFO=l-h-m-n];

[19] SET:ASPTQ,RDIRINFO=g[1]-h[1]-i[1];

[20] SET:ASPTQ,AMP[,TIME=j[1]-k[1]-l[1]-m[1]-n[1]];

[21] SET:ASPTQ,CLEARCS=o[1];

[22] SET:ASPTQ,FAILCAUSE=p[1];

[23] SET:ASPTQ,GLOBTITLE=q[1];

[24] SET:ASPTQ,GENNAME=u[1];

[25] SET:ASPTQ,TIMER=v[1];

[26] SET:ASPTQ,GENLIST=w[1]-x[1]-o-h-p;

[27] SET:ASPTQ,CLOSECAUSE=y[1];

[28] SET:ASPTQ,NOTIFYIND=z[1];

[29] SET:ASPTQ,BUSYCAUSE=a[2]-b[2]-c[2];

[30] SET:ASPTQ,TRANTYPE=d[2];

[31] SET:ASPTQ,AMAMSMENT,DATE=e[2],TIME=f[2],DUR=g[2],GUARD=h[2];

[32] SET:ASPTQ,OPC=i[2];

[33] SET:ASPTQ,BUSYTYPE=j[2];

[34] SET:ASPTQ,DISCCAUSE=k[2];

[35] SET:ASPTQ,DTMFDGTDET=l[2];

[36] SET:ASPTQ,EXTENSION,AA=m[2],{ACCTYPE=n[2]|LANI=o[2]}[,INFO=p[2]-q[2]-r[2]-s[2]];

[37] SET:ASPTQ,PLATFORM=t[2];

3. EXPLANATION OF MESSAGE

Note: An "*" indicates a default value to be used when the value is not set by the user and is not presently set. All fields are given for each parameter even if a particular field has been previously described.

AMAMSMENT = AMA measurement parameter.

a = Directory number.

b = Service profile ID (20 digits maximum).

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`c` = Trunk group ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Private facility ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Bearer capability. Valid value(s):

`56KBPS`	= 56 kilobits per second.
`64KBPS`	= 64 kilobits per second.
`AUDIO`	= 3.1 kHz audio.
`SPEECH`	= Speech.

`f` = Called party ID digits (15 digits maximum).

`g` = Nature of number for called type. Valid value(s):

`950`	= 950+ call.
`CUTTHRU`	= No address present cut through to carrier.
`INTL`	= International number.
`INTOPR`	= International number, operator requested.
`NA`	= Not applicable.
`NADOPR`	= No address present, operator requested.
`*NAT`	= National (significant) number.
`NATOPR`	= National number, operator requested.
`SSNBR`	= Subscriber number.
`SSOPR`	= Subscriber number, operator requested.
`TESTLN`	= Test line test code.

`h` = Numbering plan. Valid value(s):

`*ISDN`	= ISDN numbering plan.
`NA`	= Unknown or not applicable.
`PRIV`	= Private numbering plan.
Note:	Default values ("*") do not apply to the generic address list parameter therefore must be set by the user.

`i` = Called party station type number (0-99).

`j` = LATA digits (3 digits maximum).

`k` = Trigger criteria type. Valid value(s):

`2X`	= nxx.
`6X`	= nxx-xxxx.
`CCNP6X`	= Country code npa-nxx-xxxx.
`CUACCESS`	= Customized access.
`FEATACT`	= Feature activator.
`AFR`	= Automatic flexible routing.
`N11`	= n11.
`NP0X`	= npa-n.
`NP1X`	= npa-nx.

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NP2X = npa-nxx.
NP3X = npa-nxx-x.
NP4X = npa-nxx-xx.
NP5X = npa-nxx-xxx.
NP6X = npa-nxx-xxxx.
NPA = npa.
OCLDPTYBSY = Origination called party busy.
OHIMMED = Off-hook immediate.
OHDELAY = Off-hook delay.
ONOANS = Origination no answer.
SETPRI = Channel setup PRI.
SHRDIO = Shared inter office trunk.
TBUSY = Termination busy.
TNOANS = Termination no answer.
TRMATMPT = Termination attempt.
TRUNKGRP = Trunk group.
VERTSC = Vertical service code.
ZEROMINUS = Zero minus.
ZEROPLUS = Zero plus.

l = Charge number digits (10 digits maximum).

m = Nature of number for charge type. Valid value(s):
APN = Action pointer number.
DNAANI = Called party ANI not included.
DNATANI = Called party ANI; national number.
DSSANI = Called party ANI; subscriber number.
NAANI = ANI not available or not provided.
*NATANI = Calling party ANI national number.
SSANI = Calling party ANI; subscriber number.

n = Calling party ID digits (15 digits maximum).

o = Nature of number for calling type. Valid value(s):
INTL = Unique international number.
NA = Not applicable or unknown.
*NAT = Unique national (significant) number.
NUINTL = Non-unique international number.
NUNAT = Non-unique national number.
NUSSNBR = Non-unique subscriber number.
SSNBR = Unique subscriber number.
TESTLN = Test line test code.
Note: Default values ("*") do not apply to the generic address list parameter therefore must be set by the user.

p = Presentation restriction indicator. Valid value(s):
*ALW = Presentation allowed.
RST = Presentation restricted.

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UNA = Number unavailable.
Note: Default values ("*") do not apply to the generic address list parameter therefore must be set by the user.

q = Screening indicator. Valid value(s):
*NETP = Network provided.
UPNOT = User provided not screened.
UPPASS = User provided passed screening.

r = Calling party business group ID (range of 0-16777215).

s = Attendant status. Valid value(s):
ATTEND = Attendant line.
NOATTEND = No attendant or no indication.

t = Party selector. Valid value(s):
CGPN = Calling party number.
RDPN = Redirecting number.

u = Charge party station type number (0-99).

v = Primary carrier ID (4 digits maximum).

w = Primary carrier selection. Valid value(s):
CALL = Selected carrier identification code presubscribed and input by calling party.
NCALL = Selected carrier identification code presubscribed and not input by calling party.
NIND = No indication.
NKCALL = Selected carrier identification code presubscribed and no indication of whether input by calling party.
NPRE = Selected carrier identification code not presubscribed and input by calling party.

x = Access code digits (5 digits maximum).

y = Collected address information digits (15 digits maximum).

z = Nature of number for called type. Valid value(s):
950 = 950+ call.
CUTTHRU = No address present cut through to carrier.
INTL = International number.
INTOPR = International number, operator requested.
NA = Not applicable.
NADOPR = No address present, operator requested.
*NAT = National (significant) number.
NATOPR = National number, operator requested.
SSNBR = Subscriber number.

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SSOPR = Subscriber number, operator requested.
TESTLN = Test line test code.

a[1] = Collected digits (32 digits maximum).

b[1] = Vertical service code digits (10 digits maximum).

c[1] = Traveling class mark digits (2 digits maximum).

d[1] = Original called party ID digits (15 digits maximum).

e[1] = Nature of number for calling type. Valid value(s):
INTL = Unique international number.
NA = Not applicable or unknown.
*NAT = Unique national (significant) number.
NUINTL = Non-unique international number.
NUNAT = Non-unique national number.
NUSSNBR = Non-unique subscriber number.
SSNBR = Unique subscriber number.
TESTLN = Test line test code.

f[1] = Redirecting party ID digits (15 digits maximum).

g[1] = Original redirecting reason. Valid value(s):
BSY = User busy.
NOR = No reply.
UNC = Unconditional.
UNK = Unknown or not available.

h[1] = Redirecting reason. Valid value(s):
BSY = User busy.
NOR = No reply.
UNC = Unconditional.
UNK = Unknown or not available.

i[1] = Redirection count (value of 0-15 only).

j[1] = Year. Valid value(s):
CURRENT = Current year.
LAST = Last year.
NEXT = Next year.

k[1] = Month. Valid value(s):
JAN = January.
FEB = February.
MAR = March.
APR = April.

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MAY	= May.
JUN	= June.
JUL	= July.
AUG	= August.
SEP	= September.
OCT	= October.
NOV	= November.
DEC	= December.

l[1] = Date (1 - 31).

m[1] = Hour (0 - 23).

n[1] = Minute. Valid value(s):

00	= 0 minutes
15	= 15 minutes
30	= 30 minutes
45	= 45 minutes

o[1] = Clear cause. Valid value(s):

ABAN	= Abandon.
ABORT	= Abort.
CAPFAIL	= Capability failure.
CHBUSY	= Channels busy.
CLDPTYANS	= Called party answered.
FAIL	= Failure.
ICRESP	= Invalid caller response.
INVCD	= Invalid code.
IPTMOUT	= IP timeout.
ISDNTO	= ISDN timeout.
NORM	= Normal.
PROTERR	= Protocol error.
RSCAN	= Resource canceled.
RSRCNA	= Resource not available.
RTNOTSUP	= Resource type not supported.
SSERVINVK	= Supervisor service invoked.
STRCANC	= Send to resource canceled.
TASKREF	= Task refused.
TMOUT	= Timeout.
TMPFAIL	= Temporary failure.

p[1] = Failure cause. Valid value(s):

HIGH	= Rate too high.
UNAVAILABLE	= Unavailable resource.

q[1] = Global title address digits (always 10 digits).

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u[1] = Generic name presentation. Valid value(s):
- ALW = Presentation allowed.
- BLKTGL = Blocking toggle.
- INH = Presentation restricted.

v[1] = Time to wait for a response from the service control point (SCP) (1-10 seconds).

w[1] = Generic address signal digits (15 digits maximum).

x[1] = Generic address type of address. Values are:
- DIALEDNBR = Dialed number.
- DESTNBR = Destination number.
- SUPFAILSCR = Supplemental user provided calling address. Failed screening.
- SUPNOTSCR = Supplemental user provided calling address. Not screened.
- COMPLETNBR = Completion number.

y[1] = Close cause. Valid value(s):
- TERM = Call terminated.
- CMPL = Events and reports completed.
- UCOMM = Unexpected communication.
- ANSW = Called party answered.
- CALLFWD = Call forwarded.

z[1] = Notification indicator. Valid value(s):
- NOTIFY = Switch notification message.
- REQ = Switch request message.

a[2] = Busy cause coding standard. Valid value(s):
- CCITT = International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) standard.
- NETWK = Network specific.

b[2] = Busy cause general location. Valid value(s):
- INTNTWK = International network.
- LOCTRL = Local interface controlled by signaling link.
- LOCUNKN = Location unknown.
- PUBLU = Public network serving local user.
- PUBRU = Public network serving remote user.
- PVTLU = Private network serving local user.
- PVTRU = Private network serving remote user.
- TRNTWK = Transit network.
- USER = User.

c[2] = Busy cause value. Valid value(s):
- ADRINC = Address incomplete.
- AUNKPARM = Parameter non-existent or not implemented - accepted.

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BCNOAUTH = Bearer capability not authorized.
BCNOIMPL = Bearer capability not implemented.
BCUNAV = Bearer capability not presently available.
CALLABN = Caller abandon.
CALLREJ = Call rejected.
DESTNORTE = No route to destination.
DESTOUT = Destination out of order.
DUNKPARM = Parameter non-existent or not implemented - discarded.
INFODISCD = Access information discarded.
INTWK = Interworking.
INVRSP = Improper caller response.
NBRCHG = Number changed.
NOCKT = No circuit available.
NOUSRSP = No user responding.
NRM = Normal.
NRMCLR = Normal clearing.
NSRVOPT = Service/option not implemented.
NTWKNORTE = No route to specified transit network.
NTWKOUT = Reserved for network out of order.
PARMINV = Parameter with invalid coding.
PRCLERR = Protocol error.
RDIRCTRX = Redirection counter exceeded.
SWCHCONG = Switching equipment congestion.
TMPFAIL = Temporary failure.
RQCHANUNV = Requested channel not available.
RSRC = Resource unavailable.
SRVOPT = Service/option not available.
UNALCNBR = Unallocated number.
UNKMSG = Msg type non-existent or not implemented.
USRALRT = User alerting, no answer.
USRBSY = User busy.

d[2] = Translation type (range of 0-255).

e[2] = AMA measurement start date (month, day, year) in the form mm-dd-y.

Note: Year is only the last digit of the year.

f[2] = AMA measurement start time (hour, minutes, seconds, tenths of seconds) in the form hh-mm-ss-t.

g[2] = AMA measurement connection duration (minutes, seconds, tenths of seconds) in the form mmmmm-ss-t.

h[2] = Time guard. Valid value(s):
GUARD = Timing guard allowed.
NOGUARD = No timing guard.

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i[2] = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

j[2] = Busy type. Valid value(s):
OFFRD = Call can be offered.
NOTOFFRD = Call cannot be offered.

k[2] = Disconnect cause. Valid value(s):
FAREND = Far end.

l[2] = Dial tone multi-frequency (DTMF) digits detected (4 digits maximum).

m[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

n[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

o[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

p[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

q[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

r[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

s[2] = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

t[2] = Signaling Platform. Valid value(s):
0 = Common Network Interface (CNI) Platform
1 - 192 = Global Switching Module (GSM) Number

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- EXCEEDED xx DIGIT MAXIMUM = Too many digits entered. The allowed range for this

parameter is 0-xx.
- EXCEEDED xx DIGIT MAXIMUM FOR SPID = Too many digits entered for the SPID field for this parameter. The allowed range is 0-xx.
- INVALID DIGITS = The entered digits are invalid (0-9, *, and # are allowed).
- INVALID DN DIGITS = The entered DN digits are invalid (0-9, *, and # are allowed).
- OPC IS INVALID = The entered digits are either invalid (0-9 are allowed), the number of digits entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.
- PLATFORM IS INVALID = The entered signaling platform is invalid (0 or 1 - 192 allowed).
- xx DIGITS REQUIRED = This parameter requires xx digits."
- xx DIGITS REQUIRED FOR DN = The DN field for this parameter requires xx digits.

NO = The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to set an ASP 0.1 test query parameter. This response can also be received when attempting to set a parameter that is itself restricted by an additional feature purchase.

OK = Good. The request was accepted.

RL = Retry later. Valid value(s):
- INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):

```
CLR:ASPTQ
OP:ASPTQ
TST:ASPTQ
```

Output Message(s):

```
OP:ASPTQ
TST:ASPTQ
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-126 *Advanced Services Platform*

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SET:ASPTQ-C

Software Release: 5E16(2) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.

Some fields of certain parameters (the digit related parameters with the optional INFO keyword) have default values that are used if the optional field is not set. If the parameter is presently set, the present values of the optional fields are maintained. If the parameter is not presently set, the default values given below are used for the optional fields.

Parameter	Default
numbering plan	ISDN
presentation restriction	Allowed
screening indicator	Network provided
nature of number:	
	National
	Unique national
	Calling partyautomatic number identification (ANI) national

Format 36 is assoicated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

```
[1]    SET:ASPTQ,USERID,{DN=a|BRI=a-b|TGID=c|PFID=d};
       _____________________________________________________________

[2]    SET:ASPTQ,BEARCAP=e;
       _____________________________________________________________

[3]    SET:ASPTQ,CLDPTY=f[,INFO=g-h];
       _____________________________________________________________

[4]    SET:ASPTQ,CLDTYPE=i;
       _____________________________________________________________

[5]    SET:ASPTQ,LATA=j;
       _____________________________________________________________

[6]    SET:ASPTQ,TRIGTYPE=k;
       _____________________________________________________________

[7]    SET:ASPTQ,CHGNBR=l[,INFO=m-h];
       _____________________________________________________________

[8]    SET:ASPTQ,CLGPTY=n[,INFO=o-h-p-q];
       _____________________________________________________________

[9]    SET:ASPTQ,CLGBGID=r-s-t;
       _____________________________________________________________
```

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[10] SET:ASPTQ,CHGTYPE=u;

---

[11] SET:ASPTQ,PRMCAR=v-w;

---

[12] SET:ASPTQ,ACCCD=x;

---

[13] SET:ASPTQ,COLLADR=y[,INFO=z-h];

---

[14] SET:ASPTQ,COLLDIGS=a[1];

---

[15] SET:ASPTQ,VERTSRVCD=b[1];

---

[16] SET:ASPTQ,TCMARK=c[1];

---

[17] SET:ASPTQ,ORIGCLDPTY=d[1][,INFO=e[1]-h-p-q];

---

[18] SET:ASPTQ,RDIRPTY=f[1][,INFO=l-h-m-n];

---

[19] SET:ASPTQ,RDIRINFO=g[1]-h[1]-i[1];

---

[20] SET:ASPTQ,AMP[,TIME=j[1]-k[1]-l[1]-m[1]-n[1]];

---

[21] SET:ASPTQ,CLEARCS=o[1];

---

[22] SET:ASPTQ,FAILCAUSE=p[1];

---

[23] SET:ASPTQ,GLOBTITLE=q[1];

---

[24] SET:ASPTQ,GENNAME=u[1];

---

[25] SET:ASPTQ,TIMER=v[1];

---

[26] SET:ASPTQ,GENLIST=w[1]-x[1]-o-h-p;

---

[27] SET:ASPTQ,CLOSECAUSE=y[1];

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---

[28] SET:ASPTQ,NOTIFYIND=z[1];

---

[29] SET:ASPTQ,BUSYCAUSE=a[2]-b[2]-c[2];

---

[30] SET:ASPTQ,TRANTYPE=d[2];

---

[31] SET:ASPTQ,AMAMSMENT,DATE=e[2],TIME=f[2]. . .
. . .,DUR=g[2],GUARD=h[2];

---

[32] SET:ASPTQ,OPC=i[2];

---

[33] SET:ASPTQ,BUSYTYPE=j[2];

---

[34] SET:ASPTQ,DISCCAUSE=k[2];

---

[35] SET:ASPTQ,DTMFDGTDET=l[2];

---

[36] SET:ASPTQ,EXTENSION,AA=m[2],{ACCTYPE=n[2]|. . .
. . .LANI=o[2],OLISCR=q[2]}[,INFO=p[2]-h-p-q];

---

[37] SET:ASPTQ,PLATFORM=t[2];

---

3. EXPLANATION OF MESSAGE

AMAMSMENT = AMA measurement parameter.

a = Directory number.

b = Service profile ID (20 digits maximum).

c = Trunk group ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Private facility ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Bearer capability. Valid value(s):

56KBPS	= 56 kilobits per second.
64KBPS	= 64 kilobits per second.
AUDIO	= 3.1 kHz audio.

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SPEECH = Speech.

f = Called party ID digits (15 digits maximum).

g = Nature of number for called type. Valid value(s):

- 950 = 950+ call.
- CUTTHRU = No address present cut through to carrier.
- INTL = International number.
- INTOPR = International number, operator requested.
- NA = Not applicable.
- NADOPR = No address present, operator requested.
- NAT = National (significant) number (default value).
- NATOPR = National number, operator requested.
- SSNBR = Subscriber number.
- SSOPR = Subscriber number, operator requested.
- TESTLN = Test line test code.

h = Numbering plan. Valid value(s):

- ISDN = ISDN numbering plan (default value).
- NA = Unknown or not applicable.
- PRIV = Private numbering plan.

i = Called party station type number (0-99).

j = LATA digits (3 digits maximum).

k = Trigger criteria type. Valid value(s):

- 2X = nxx.
- 6X = nxx-xxxx.
- CCNP6X = Country code npa-nxx-xxxx.
- CUACCESS = Customized access.
- FEATACT = Feature activator.
- AFR = Automatic flexible routing.
- N11 = n11.
- NP0X = npa-n.
- NP1X = npa-nx.
- NP2X = npa-nxx.
- NP3X = npa-nxx-x.
- NP4X = npa-nxx-xx.
- NP5X = npa-nxx-xxx.
- NP6X = npa-nxx-xxxx.
- NPA = npa.
- OCLDPTYBSY = Origination called party busy.
- OHIMMED = Off-hook immediate.
- OHDELAY = Off-hook delay.
- ONOANS = Origination no answer.
- SETPRI = Channel setup PRI.
- SHRDIO = Shared inter office trunk.

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TBUSY = Termination busy.
TNOANS = Termination no answer.
TRMATMPT = Termination attempt.
TRUNKGRP = Trunk group.
VERTSC = Vertical service code.
ZEROMINUS = Zero minus.
ZEROPLUS = Zero plus.

l = Charge number digits (10 digits maximum).

m = Nature of number for charge type. Valid value(s):
APN = Action pointer number.
DNAANI = Called party ANI not included.
DNATANI = Called party ANI; national number.
DSSANI = Called party ANI; subscriber number.
NAANI = ANI not available or not provided.
NATANI = Calling party ANI national number (default value).
SSANI = Calling party ANI; subscriber number.

n = Calling party ID digits (15 digits maximum).

o = Nature of number for calling type. Valid value(s):
INTL = Unique international number.
NA = Not applicable or unknown.
NAT = Unique national (significant) number (default value).
NUINTL = Non-unique international number.
NUNAT = Non-unique national number.
NUSSNBR = Non-unique subscriber number.
SSNBR = Unique subscriber number.
TESTLN = Test line test code.

p = Presentation restriction indicator. Valid value(s):
ALW = Presentation allowed (default value).
RST = Presentation restricted.
UNA = Number unavailable.

q = Screening indicator. Valid value(s):
NETP = Network provided (default value).
UPNOT = User provided not screened.
UPPASS = User provided passed screening.

r = Calling party business group ID (range of 0-16777215).

s = Attendant status. Valid value(s):
ATTEND = Attendant line.
NOATTEND = No attendant or no indication.

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t = Party selector. Valid value(s):
- CGPN = Calling party number.
- RDPN = Redirecting number.

u = Charge party station type number (0-99).

v = Primary carrier ID (4 digits maximum).

w = Primary carrier selection. Valid value(s):
- CALL = Selected carrier identification code presubscribed and input by calling party.
- NCALL = Selected carrier identification code presubscribed and not input by calling party.
- NIND = No indication.
- NKCALL = Selected carrier identification code presubscribed and no indication of whether input by calling party.
- NPRE = Selected carrier identification code not presubscribed and input by calling party.

x = Access code digits (5 digits maximum).

y = Collected address information digits (15 digits maximum).

z = Nature of number for called type. Valid value(s):
- 950 = 950+ call.
- CUTTHRU = No address present cut through to carrier.
- INTL = International number.
- INTOPR = International number, operator requested.
- NA = Not applicable.
- NADOPR = No address present, operator requested.
- NAT = National (significant) number (default value).
- NATOPR = National number, operator requested.
- SSNBR = Subscriber number.
- SSOPR = Subscriber number, operator requested.
- TESTLN = Test line test code.

a\[1] = Collected digits (32 digits maximum). (default value)

b[1] = Vertical service code digits (10 digits maximum).

c[1] = Traveling class mark digits (2 digits maximum).

d[1] = Original called party ID digits (15 digits maximum).

e[1] = Nature of number for calling type. Valid value(s):
- INTL = Unique international number.
- NA = Not applicable or unknown.
- NAT = Unique national (significant) number (default value).
- NUINTL = Non-unique international number.
- NUNAT = Non-unique national number.

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NUSSNBR = Non-unique subscriber number.
SSNBR = Unique subscriber number.
TESTLN = Test line test code.

f[1] = Redirecting party ID digits (15 digits maximum).

g[1] = Original redirecting reason. Valid value(s):
BSY = User busy.
NOR = No reply.
UNC = Unconditional.
UNK = Unknown or not available.

h[1] = Redirecting reason. Valid value(s):
BSY = User busy.
NOR = No reply.
UNC = Unconditional.
UNK = Unknown or not available.

i[1] = Redirection count (value of 0-15 only).

j[1] = Year. Valid value(s):
CURRENT = Current year.
LAST = Last year.
NEXT = Next year.

k[1] = Month. Valid value(s):
JAN = January.
FEB = February.
MAR = March.
APR = April.
MAY = May.
JUN = June.
JUL = July.
AUG = August.
SEP = September.
OCT = October.
NOV = November.
DEC = December.

l[1] = Date (1 - 31).

m[1] = Hour (0 - 23).

n[1] = Minute. Valid value(s):
00 = 0 minutes
15 = 15 minutes
30 = 30 minutes

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45 = 45 minutes

o[1] = Clear cause. Valid value(s):
- ABAN = Abandon.
- ABORT = Abort.
- CAPFAIL = Capability failure.
- CHBUSY = Channels busy.
- CLDPTYANS = Called party answered.
- FAIL = Failure.
- ICRESP = Invalid caller response.
- INVCD = Invalid code.
- IPTMOUT = IP timeout.
- ISDNTO = ISDN timeout.
- NORM = Normal.
- PROTERR = Protocol error.
- RSCAN = Resource canceled.
- RSRCNA = Resource not available.
- RTNOTSUP = Resource type not supported.
- SSERVINVK = Supervisor service invoked.
- STRCANC = Send to resource canceled.
- TASKREF = Task refused.
- TMOUT = Timeout.
- TMPFAIL = Temporary failure.

p[1] = Failure cause. Valid value(s):
- HIGH = Rate too high.
- UNAVAILABLE = Unavailable resource.

q[1] = Global title address digits (always 10 digits).

u[1] = Generic name presentation. Valid value(s):
- ALW = Presentation allowed.
- BLKTGL = Blocking toggle.
- INH = Presentation restricted.

v[1] = Time to wait for a response from the service control point (SCP) (1-10 seconds).

w[1] = Generic address signal digits (15 digits maximum).

x[1] = Generic address type of address. Valid value(s):
- DIALEDNBR = Dialed number.
- DESTNBR = Destination number.
- SUPFAILSCR = Supplemental user provided calling address. Failed screening.
- SUPNOTSCR = Supplemental user provided calling address. Not screened.
- COMPLETNBR = Completion number.

y[1] = Close cause. Valid value(s):

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TERM = Call terminated.
CMPL = Events and reports completed.
UCOMM = Unexpected communication.
ANSW = Called party answered.
CALLFWD = Call forwarded.

z[1] = Notification indicator. Valid value(s):
NOTIFY = Switch notification message.
REQ = Switch request message.

a[2] = Busy cause coding standard. Valid value(s):
CCITT = International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) standard.
NETWK = Network specific.

b[2] = Busy cause general location. Valid value(s):
INTNTWK = International network.
LOCTRL = Local interface controlled by signaling link.
LOCUNKN = Location unknown.
PUBLU = Public network serving local user.
PUBRU = Public network serving remote user.
PVTLU = Private network serving local user.
PVTRU = Private network serving remote user.
TRNTWK = Transit network.
USER = User.

c[2] = Busy cause value. Valid value(s):
ADRINC = Address incomplete.
AUNKPARM = Parameter non-existent or not implemented - accepted.
BCNOAUTH = Bearer capability not authorized.
BCNOIMPL = Bearer capability not implemented.
BCUNAV = Bearer capability not presently available.
CALLABN = Caller abandon.
CALLREJ = Call rejected.
DESTNORTE = No route to destination.
DESTOUT = Destination out of order.
DUNKPARM = Parameter non-existent or not implemented - discarded.
INFODISCD = Access information discarded.
INTWK = Interworking.
INVRSP = Improper caller response.
NBRCHG = Number changed.
NOCKT = No circuit available.
NOUSRSP = No user responding.
NRM = Normal.
NRMCLR = Normal clearing.
NSRVOPT = Service/option not implemented.
NTWKNORTE = No route to specified transit network.

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NTWKOUT = Reserved for network out of order.
PARMINV = Parameter with invalid coding.
PRCLERR = Protocol error.
RDIRCTRX = Redirection counter exceeded.
SWCHCONG = Switching equipment congestion.
TMPFAIL = Temporary failure.
RQCHANUNV = Requested channel not available.
RSRC = Resource unavailable.
SRVOPT = Service/option not available.
UNALCNBR = Unallocated number.
UNKMSG = Msg type non-existent or not implemented.
USRALRT = User alerting, no answer.
USRBSY = User busy.

d[2] = Translation type.

e[2] = AMA measurement start date (month, day, year) in the form mm-dd-y.

NOTE: Year is only the last digit of the year.

f[2] = AMA measurement start time (hour, minutes, seconds, tenths of seconds) in the form hh-mm-ss-t.

g[2] = AMA measurement connection duration (minutes, seconds, tenths of seconds) in the form mmmmm-ss-t.

h[2] = Time guard. Valid value(s):
GUARD = Timing guard allowed.
NOGUARD = No timing guard.

i[2] = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

j[2] = Busy type. Valid value(s):
OFFRD = Call can be offered.
NOTOFFRD = Call cannot be offered.

k[2] = Disconnect cause. Valid value(s):
FAREND = Far end.

l[2] = Dial tone multi-frequency (DTMF) digits detected (4 digits maximum).

m[2] = Assignment authority.

n[2] = Access type.

o[2] = LANI 10 digit charge number.

p[2] = Nature of number for LANI. Valid value(s):

APN = Action pointer number.
INTL = Unique international number.
NA = Not applicable or unknown.
NAT = Unique national (significant) number (default value).
NUINTL = Non-unique international number.
NUNAT = Non-unique national number.
NUSSNBR = Non-unique subscriber number.
SSNBR = Unique subscriber number.
TESTLN = Test line test code.

t[2] = Signaling platform. Valid value(s):
0 = Common network interface (CNI) platform
1 - 192 = Global switching module (GSM) number.

q[2] = OLI screen value.

4. SYSTEM RESPONSE

NG = No good. May also include:
- EXCEEDED xx DIGIT MAXIMUM = Too many digits entered. The allowed range for this parameter is 0-xx.
- EXCEEDED xx DIGIT MAXIMUM FOR SPID = Too many digits entered for the SPID field for this parameter. The allowed range is 0-xx.
- INVALID DIGITS = The entered digits are invalid (0-9, *, and # are allowed).
- INVALID DN DIGITS = The entered DN digits are invalid (0-9, *, and # are allowed).
- OPC IS INVALID = The entered digits are either invalid (0-9 are allowed), the number of digits entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.
- PLATFORM IS INVALID = The entered signaling platform is invalid (0 or 1 - 192 allowed).
- xx DIGITS REQUIRED = This parameter requires xx digits."
- xx DIGITS REQUIRED FOR DN = The DN field for this parameter requires xx digits.

NO = The request is not allowed. May also include:
- FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to set an ASP 0.1 test query parameter. This response can also be received when attempting to set a parameter that is itself restricted by an additional feature purchase.

OK = Good. The request was accepted.

RL = Retry later. May also include:
- INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

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Input Message(s):

```
CLR:ASPTQ
OP:ASPTQ
TST:ASPTQ
```

Output Message(s):

```
OP:ASPTQ
TST:ASPTQ
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-126 *Advanced Services Platform*

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SET:AUD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests to set SODD Audit to run Full, Incremental or sub audit(s) during execution.

2. FORMAT

```
SET:AUD=SODD,AUDIT=a;
```

3. EXPLANATION OF MESSAGE

`a` = Sub audit for the full audit to be set. Valid value(s):

`BOOT`	= Boot Critical sub audit.
`BRCS`	= BRCS sub audit.
`CCS`	= CCS sub audit.
`DIGIT`	= Digit Analysis sub audit.
`EQUIP`	= Equipment sub audit.
`FULL`	= Full audit.
`GLOBAL`	= Global Parameters sub audit.
`INCR`	= Incremental audit.
`ISDN`	= ISDN sub audit.
`LINE`	= Line sub audit.
`MISC`	= Miscellaneous sub audit.
`MLHG`	= MLHG sub audit.
`PSMLHG`	= Packet Switching MLHG sub audit.
`OSPS`	= OSPS sub audit.
`TRUNK`	= Trunk sub audit.
`PSTRUNK`	= Packet Switching Trunk sub audit.

4. SYSTEM RESPONSE

`PF` = Printout follows.

`- FULL AUDIT IS CURRENTLY RUNNING. ENTER "STP:AUD=SODD,FULL" TO STOP THE AUDIT."`
The input request is not valid because the SODD Audit is currently running.

`- OP AUD=SODD AUDIT MESSAGE FOLLOWS` = Followed by OP:AUD-SODD-STATUS output message.

5. REFERENCES

Input Message(s):

`EXC:AUD-SODD`

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```
OP:AUD-SODD
STP:AUD-SODD
CLR:AUD
```

Output Message(s):

```
OP:AUD-ERROR
OP:AUD-STATUS
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

SET:BACKOUT

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that uncommitted application recent changes be backed out. These backouts are from the administrative module (AM) and/or one or more switching modules (SMs) or a selected communication module processor (CMP) on a bootstrap (pump) of that processor. This is accomplished by unconditionally pumping the RC memory and inhibiting RC roll-forward.

Normally, when a processor (AM, SM or CMP) undergoes a high-level initialization (selective initialization or full initialization), recently applied recent changes are retained in office-dependent data (ODD). This input message causes recent changes to be backed out from memory on the next high-level initialization and all thereafter until manually cancelled. This procedure may be necessary if it is suspected that a recent change to a processor is linked to a performance problem of that processor. The backout condition will remain in effect through all processor initializations (with the exception of DMERT LVL4 initialization) until manually cleared by a CLR:BACKOUT input message or the related emergency action interface (EAI) parameter (AM bootstraps only). Format 1 requests that uncommitted recent changes in the AM be backed out. Format 2 requests that the same activity be performed on a CMP, and optionally the AM. Format 3 requests backing out uncommitted recent changes on one or more SMs, and other optional processors.

WARNING: Recent changes that have been applied since the last backout will not be included on one or more processors. Permitting backouts of selected processors may introduce inconsistencies between processors which can have adverse effects.

2. FORMAT

```
[1]    SET:BACKOUT:RC,AM;

[2]    SET:BACKOUT:RC,CMP=a,{PRIM|MATE}[,AM];

[3]    SET:BACKOUT,RC,SM=b[&&c][,LSM][,HSM][,RSM][,ORM][,TRM][,DRM]
       [,AM][,CMP=a,{PRIM|MATE}];
```

3. EXPLANATION OF MESSAGE

`AM` = Apply the backout to the AM.

`HSM` = Select switching modules of the type host switching module (HSM).

`LSM` = Select switching modules of the type local switching module (LSM).

`MATE` = Mate CMP.

`ORM` = Select modules of the type optically remote switching module (ORM).

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`PRIM` = Primary CMP.

`RC` = Set the named processor(s) to back out all uncommitted recent changes on subsequent AM bootstraps and/or SM pumps.

`RSM` = Select switching modules of the type remote switching module (RSM).

`SM` = Apply the backout to one or more SMs.

`TRM` = Select modules of the type two mile optically remote switching module (TRM).

`DRM` = Select modules of the type distinctive remote reliable switching module (DRM).

`a` = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = SM number or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Upper limit of the range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because:
- The processor type was invalid or missing (AM, SM or CMP).
- An illegal SM number or range was specified.
- An illegal CMP number was specified.

`OK` = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

```
CLR:BACKOUT
EXC:ODDRCVY
OP:SYSSTAT
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-220 *Corrective Maintenance*

235-105-250 *System Recovery Procedures*

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MCC Display Page(s):

110 (SYSTEM INHIBITS)
1800 (SM INH & RCVRY CNTL)
1850,1851 (CMP INH & RCVRY CNTL)

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SET:BKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Request a file to be created that specifies the options for an automated system backup. This file is referred to as a backup option file and is created in the /no5text/bkup/autobkup directory. Backup option files will remain in existence until manually removed from the /no5text/bkup/autobkup directory. The backup option files are used as input to the automated system backup process after backups are scheduled with SCHED:BKUP.

Format 1 is used to specify the options for a full office backup written at the beginning of tape (BOT).

Format 2 is used to specify the options for a backup appended after an existing tape volume. This format allows volumes to be appended within or after the last session. The entire last session or a subset of volumes within the last session can be overwritten.

Format 3 is used to specify the options for a backup written at the end of tape data (EOD).

Format 4 is used to specify the options for a backup written to a system backup disk (MHD 14 or MHD 15) or base disk pair (MHD 0 and MHD 1) backup partitions.

2. FORMAT

```
[1]    SET:BKUP:BOT:DATA,DEST="a"[,FN="f"][,TPSIZE=g];
       ________________________________________________________________

[2]    SET:BKUP:APPEND:DATA,DEST="a",PSESS=b,PVOL=c,. . .
       . . .SESS=d,VOL=e[-e[-e...]][,FN="f"][,TPSIZE=g];
       ________________________________________________________________

[3]    SET:BKUP:EOD:DATA,DEST="a",VOL=e[-e[-e...]]. . .
       . . .[,FN="f"][,TPSIZE=g];
       ________________________________________________________________

[4]    SET:BKUP:DISK:DATA,DEST="a"[,FN="f"];
       ________________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Destination device. Valid value(s):

- `pathname` = Tape drive special device file (such as, /dev/mt08). Only valid when used with a backup to tape message format.
- `MHD14` = System backup disk MHD 14. Only valid when used with the backup to disk message format.
- `MHD15` = System backup disk MHD 15. Only valid when used with the backup to disk message format.
- `BKPTN` = Base disk pair (MHD 0/MHD 1) backup partitions. Only valid when used with the backup to disk message format.

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`b` = Tape positioning session number (1-9). Used with the tape positioning volume number to specify the location on the tape to append volumes that will be backed up. The existing tape session and volume numbers can be determined from the DUMP:BKTAPE output message.

The tape positioning session must be set to the number of the last session or the number of the last session minus one. It is invalid to specify any other session number. This ensures that only the last session on a tape can be overwritten with new data.

To append volumes within the last session or create a new session, the tape positioning session number must be set to the number of the last session on the tape.

To overwrite the entire last session, the tape positioning session number must be set to the number of the last session on the tape minus one.

`c` = Tape positioning logical volume number. Valid value(s):

`0` = TOP.
`1` = AMTEXT.
`2` = AMODD.
`3` = SMTEXT.
`4` = SMODD1.
`5` = SMODD2.
`6` = SMODD3.
`7` = SMODD4.
`8` = SMODD5.
`9` = SMODD6.

Used with the tape positioning session number to specify the location on the tape to append volumes that will be backed up. Volumes to be backed up will be written onto the tape after the volume identified by the tape positioning session and volume numbers. All existing volumes following the volume identified by the tape positioning session and volume numbers will be overwritten. The existing tape session and volume numbers can be determined from the DUMP:BKTAPE output message.

To append volumes within the last session, the tape positioning volume number must be less than the numbers corresponding to the volumes to be backed up. This is required to keep the volume numbers in ascending order within a session.

It is invalid to append volumes so that a portion of the SMODD volumes are overwritten. To overwrite all of the SMODD volumes in the last session, the tape positioning volume number must be equal to 4.

To create a new session or overwrite all existing volumes in the last session, the tape positioning volume number must be equal to the last volume within the session specified as the tape positioning session `'b'`.

`d` = Session number assigned to new volumes written to tape. The first session on a tape must be numbered 1 and increased sequentially thereafter with a maximum value of 9.

To append volumes within the last session on the tape or overwrite all existing volumes in the last session, the session number must be equal to the number of the last session on the tape.

To create a new session on the tape, the session number must be equal to the last session

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number on the tape plus one.

`e` = A dash separated list of identifiers for volumes that will be backed up to tape. Valid value(s):

`ALL`	= Full office backup includes AMTEXT, AMODD, SMTEXT, SMODD. Logical volume numbers 1-9.
`AMTEXT`	= Logical volume number 1.
`AMODD`	= Logical volume number 2.
`SMTEXT`	= Logical volume number 3.
`SMODD`	= All configured SMODD[1-6] volumes. Logical volume numbers 4-9.

Volumes must be written in ascending order within a session and are allowed to be skipped within a session.

`f` = Name of the backup option file that will be created. This variable must not be specified as a full or relative pathname.

This file will be created in the /no5text/bkup/autobkup directory and will remain in existence until manually removed. An existing backup option file cannot be over written. If a file name is not specified, the default file name, bkup.opts, will be used.

`g` = Length in meters of the DAT mounted on the specified destination tape drive. Valid lengths are 90, 120, 125, 150, and 170 meters.

A default length of 90 meters will be used if the tape length is not specified.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the SET:BKUP output message.

5. REFERENCES

Input Message(s):

```
ALW:AUTOBKUP
CLR:BKUP
INH:AUTOBKUP
OP:BKUP
SCHED:BKUP
STP:AUTOBKUP
```

Output Message(s):

```
SET:BKUP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance Procedures*

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SET:CALLMON

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the verbose mode of the call monitor be turned on. This message generates the REPT CALLMON VERBOSE TEST CALL output message on a per test call basis and allows the REPT CALLMON CURRENT [5|15] MINUTE REPORT to print regardless of passing or failing call completion analysis.

2. FORMAT

```
SET:CALLMON,VERBOSE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request has been accepted.

5. REFERENCES

Input Message(s):

```
ALW:CALLMON
CLR:CALLMON
INH:CALLMON
OP:CALLMON
RTR:CALLMON
```

Output Message(s):

```
OP:CALLMON
REPT:CALLMON-CMR
REPT:CALLMON-VTC
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

116 (MISCELLANEOUS)

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SET:CGAP

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a call gapping (CGAP) code control be set to restrict traffic.

Format 1 introduces or modifies a code control for all calls to a specified destination code, regardless of access prefix. Format 2 introduces or modifies a code control for all calls to a specified access prefix, regardless of destination code. Format 3 introduces or modifies a code control for all calls to a specified destination code and access prefix.

Note: For the *Autoplex®* application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
[1]    SET:CGAP,CODE=a,DOM={ALL|f},GAP=c[,ANN=d];

[2]    SET:CGAP,PREFIX=b,DOM={ALL|f},GAP=c[,ANN=d];

[3]    SET:CGAP,CODE=a,PREFIX=b,DOM={ALL|f},GAP=c[,ANN=d];
```

3. EXPLANATION OF MESSAGE

`a` = Destination code (often referred to as called number). This string may contain up to 18 digits. (Valid characters 0-9, "*", "#"; the quotation marks are required where shown). The string is typically of the form NPANXXXXXX where NPA is the area code, NXX is the office code and XXXX is the last four digits of the number. Any of the leftmost subsets, however, can be entered (such as, a code control can be set on the NPA, the first digit of the NPA, the area code followed by two digits of the office code NPANX, and so forth.).

Note: Code controls are usually more effective when set in the offices surrounding the office where the controlled number (NPANXXXXXX) physically resides.

`b` = The access prefix (0 - 9999). The access prefix only applies to feature group D carriers.

`c` = Gap interval. Maximum rate at which calls may be released towards the specified destination code.

Note: The gap is randomized by +- 50%, to prevent bursts or pulses of traffic (except for gaps 0 and INF).

Valid value(s):

`0`	= Apply no control, but collect measurements.
`PT1`	= 0.10 sec.
`PT12`	= 0.12 sec.

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PT14	= 0.14 sec.
PT16	= 0.16 sec.
PT18	= 0.18 sec.
PT2	= 0.20 sec.
PT25	= 0.25 sec.
PT36	= 0.36 sec.
PT5	= 0.50 sec.
PT6	= 0.60 sec.
PT75	= 0.75 sec.
1	= 1.0 sec.
1PT6	= 1.6 sec.
2	= 2.0 sec.
3	= 3.0 sec.
5	= 5.0 sec.
6	= 6.0 sec.
9	= 9.0 sec.
10	= 10.0 sec.
12	= 12.0 sec.
15	= 15.0 sec.
20	= 20.0 sec.
30	= 30.0 sec.
45	= 45.0 sec.
60	= 60.0 sec.
75	= 75.0 sec.
100	= 100.0 sec.
120	= 120.0 sec.
150	= 150.0 sec.
300	= 300.0 sec.
450	= 450.0 sec.
600	= 600.0 sec.
INF	= Infinity, block all calls.

d = Announcement (ANN) treatment if blocking occurs. Valid value(s):

EANN1	= Emergency announcement 1.
EANN2	= Emergency announcement 2.
NCA	= No circuit announcement. Default.
Note:	This is different from no announcement.

f = Switching domain list (1 - 254). The switching domain is equivalent to the digit analysis selector (DAS).

ALL	= Apply code control to all domains.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SET:CGAP output message.

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`RL` = Retry later. Valid value(s):
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:CGAP
OP:CGAP
```

Output Message(s):

```
SET:CGAP
```

Other Manual(s):

235-190-115 *Local and Toll System Features*

MCC Display Page(s):

109 (OVERLOAD)
130 (NM EXCEPTION)

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SET:CLK-5

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the system clock be set to the specified date and time, or that the system time be adjusted by a small amount.

Format 1 sets the system clock to the specified date and time. If a date is not specified, the current date is used. Format 2 increases the system time by up to one hour. Format 3 decreases the system time by up to one hour.

Note: Changing the system clock impacts the scheduling time of some tasks. Depending on the actual time transition and a task's scheduled execution time, setting the system clock backward may delay some tasks, while setting the system clock ahead may cause some tasks to run immediately.

2. FORMAT

```
[1]    SET:CLK[,DATE=aa-aa-aa,]TIME=bb-bb-bb;

[2]    SET:CLK,INCREASE=g;

[3]    SET:CLK,DECREASE=g;
```

3. EXPLANATION OF MESSAGE

`a` = Date, in the form month-day-year.

`b` = Time, in the form hour-minute-second.

`g` = Offset from current time, in seconds (0-3600).

4. SYSTEM RESPONSE

`NG` = No good. Semantic checks on the input values failed, causing the request to be rejected. May also include:

- `BAD INPUT DATA` = An input value either conflicted with another input value or was out of range.
- `INVALID HOUR FOR DST` = In offices that honor daylight savings time (DST), the new system time fell in the non-existent hour between 02:00:00 and 02:59:59 on the first Sunday in April.
- `NEW TIME EXCEEDS INTERNAL LIMIT` = The new system time overflowed the internal time structure.

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`PF` = Printout follows. The request was accepted. Followed by the SET:CLK-5 output message.

`RL` = Retry later. May also include:
`- CANNOT APPLY OFFSET WHILE TIME IS BAD` = A request to increase or decrease the system time by some offset value was denied because the existing system time was invalid.

5. REFERENCES

Input Message(s):

```
OP:CLK
```

Output Message(s):

```
OP:CLK
SET:CLK-5
```

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SET:CLK

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Sets the system clock to the specified data and time. It can also adjust the system clock by plus or minus the seconds specified.

2. FORMAT

```
[1]    SET:CLKabcde!
       ____________________________________________________________

[2]    SET:CLK:{FWDf|BWDf}!
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: No spaces are permitted within the argument string.

`a` = Two digit month of the year.

`b` = Two digit day of the month.

`c` = Last two digits of the year. Numbers less than 70 refer to dates in the 21st century. Because of the limitations of the 3B20/21D, years 2038 and later are not supported.

`d` = Two digit hour.

`e` = Two digit minute.

`f` = Two digit second. If prefixed by plus (+) or minus (-), the clock will be set ahead or backward by the specified seconds.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the SET:CLK output message.

5. REFERENCES

Input Message(s):

```
OP:CLK
```

Output Message(s):

```
OP:CLK
SET:CLK
```

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SET:CONFIRM

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Request to set the text and/or display status of a user-definable confirmation prompt. A user-definable confirmation prompt can only be set for page pokes which have existing system-defined default confirmation prompts. A user-definable confirmation prompt can have up to three lines of text.

2. FORMAT

```
SET:CONFIRM,PAGE=a,POKE=b{[,{LINE1|LINE2|LINE3}="c"]
[,DISPLAY[=d]]};
```

3. EXPLANATION OF MESSAGE

`a` = MCC page number. Refer to the E-CONF-POKES appendix in the Appendixes section of the Input Messages manual.

`b` = Command poke number. Refer to the E-CONF-POKES appendix in the Appendixes section of the Input Messages manual.

`c` = User-definable text for a line of the confirmation prompt. Only one line may be requested at a time. May be used with or without variable '`d`'. Maximum line length is 65 characters.

`d` = Display status. May be used with or without variable '`c`' but, if used must be the last item in the message line. Valid value(s):

- `N` = If used, no confirmation page will appear and only the system-defined default confirmation prompt will appear.
- `Y` = If used when the user enters the specified page and poke combination, a confirmation page (that is, a page showing the user-definable text) will be displayed at the requesting terminal, followed by the system-defined default confirmation prompt.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):

- `INTERNAL ERROR (CREAT FAIL1)` = Failed to create confirmation prompt file /no5text/hm/.enhconf.
- `INTERNAL ERROR (MALLOC FAIL1)` = Failed to allocate space in memory. Try repeating the request.
- `INTERNAL ERROR (OPEN FAIL1)` = Failed to open confirmation prompt file /no5text/hm/.enhconf.
- `INTERNAL ERROR (READ FAIL1)` = Failed to read confirmation prompt file /no5text/hm/.enhconf.
- `INTERNAL ERROR (SEEK FAIL1)` = Failed to seek to appropriate position in confirmation

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prompt file /no5text/hm/.enhconf.
- `INTERNAL ERROR (WRITE FAIL1)` = Failed to write to confirmation prompt file /no5text/hm/.enhconf.
- `INVALID PAGE AND POKE COMBINATION` = The page and poke combination is not valid, or is a combination which does not have a default confirmation prompt.
- `SPECIAL FEATURE NOT AVAILABLE` = Secured feature bit is not turned on.
- `NO LINE OR DISPLAY INPUT`

`OK` = The input message syntax is correct and the input message has been accepted and will be processed.

5. REFERENCES

Input Message(s):

```
OP:CONFIRM
```

Output Message(s):

```
OP:CONFIRM
```

Other Manual(s):
235-190-115 *Local and Toll System Features*
235-105-110 *System Maintenance Requirements and Tools*

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SET:COT

Software Release: 5E15 and later
Command Group: TRACE
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the mode and/or priority of customer-originated traces (COT) be changed. This input message allows the device for COT messages to be dedicated to tty45 (MODE=DEDICATED), or to be set to what is specified by the classdef (MODE=NONDEDICATED), and will allow the priority of the messages going to the classdef(160) to be changed.

Format 1 is used to toggle between DEDICATED and NONDEDICATED mode without changing the priority.

Format 2 is used to change only the priority of the messages to the classdef, but not the mode.

Format 3 is used to change both the mode and priority.

WARNING: Incorrect use of this message could result in COT messages' being lost. If dedicated mode is chosen, there MUST be a dedicated tty45 available. If nondedicated mode is chosen then there must be writable devices listed on the appropriate classdef. No warning message will be printed if either of the above rules is violated, and no warning message will be printed if any COT messages are lost. To determine whether there is an available tty45, look at the equipment configuration database (ECD). Poke 199 from the Master Control Center (MCC) page. Look at the UCB and give a key of TTY45. The information will then be displayed. Verify that the TTY45 is active. To see which devices are on the classdef, look at classdef 160 from the ECD.

DEDICATED mode enables special monitoring of TTY45. In the event that a COT message could not be sent to TTY45, (that is, TTY45 is out-of-service) it will be buffered until TTY45 is restored. This ensures that TTY45 will always get the COT messages. The buffer will hold 300 COT messages. Once 300 COT messages are buffered COT is internally disabled, and will not be re-enabled until the COT buffer is emptied to at least 285. Alarm messages are sent to the ROP when the COT buffer reaches 50% and 100% full. While in DEDICATED mode, each time an attempt is made to send a message to TTY45, the same message is sent to any and all devices specified on the classdef form 160. While in DEDICATED mode TTY45 must be equipped or COT will be internally disabled. Equipped is defined to be ACTIVE, STANDBY, INIT, or OOS. NONDEDICATED mode does not use the special monitoring, and only sends the COT messages to all devices specified on classdef form 160. When using this mode it is the user's responsibility to make sure that the proper devices are entered on classdef form 160. If no devices are specified on that form, then the COT messages will be lost.

Setting up the classdef form applies to both DEDICATED and NONDEDICATED modes, however, DEDICATED mode does not need to specify anything on the classdef form, since the messages will always go to TTY45. When using NONDEDICATED mode, special care needs to be taken when setting up the classdef form. The classdef form will accept any logical device name. That device could be an SCCS link, the ROP, the MCC, any TTY, or even a log file. The logical device name is the same name used as a key for the ECD device form. A typical classdef form for COT might specify that COT messages should go to the SCCS, the ROP, and a COT log file. The COT log file would be defined on the device form in the ECD. Note that the name of the COT log file must not conflict with the COT buffer which is /log/COTbuffer. If a device on the classdef form is OOS, or has reached its message buffer limit, then the message destined for that device is

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forwarded to the alternate device specified for that device. If no alternate device was specified, then the message for that device is lost. Alternate devices are specified on the device form. In order to achieve a high reliability for NONDEDICATED mode, we strongly recommend defining alternate devices. Changing the mode is rare event. It should be done when COT is installed in the office. If DEDICATED mode is normally used, changing the mode to NONDEDICATED may be useful during usually long outages of TTY45. DEDICATED mode offers the highest reliability against lost COT messages.

However, the buffer size is limited to 300 COT messages. If there is a prolonged outage of TTY45, the user may choose to temporarily change to NONDEDICATED mode operation. This would keep COT enabled since the COT buffer is not used in NONDEDICATED mode. Note that when the mode is switched to NONDEDICATED, any messages in the COT buffer are forwarded to the classdef form 160, and the buffer cleared. If the buffer was full, and COT was disabled, COT would be re-enabled. Priority is used in conjunction with messages that are sent to the classdef form. If a device specified on the classdef form uses a priority queue, then this priority is used to determine the messages placement in the queue. The priority is set to 4 when COT is installed in the office. If a device does not use a priority queue, but rather uses FIFO, the priority has no effect.

2. FORMAT

```
[1]    SET:COT,MODE=[NON]DEDICATED;

[2]    SET:COT,PRIORITY=b;

[3]    SET:COT,MODE=[NON]DEDICATED,PRIORITY=b;
```

3. EXPLANATION OF MESSAGE

`DEDICATED` = Allow the sending of COT messages to the dedicated tty45 device (as well as to anything listed on the classdef). This mode is desired because up to 300 COT messages can be buffered if the tty45 temporarily goes down. If this mode is chosen then there must exist a dedicated tty45 device.

`NONDEDICATED` = Inhibit the sending of COT messages to the dedicated tty45, and send them to what is defined in the classdef. If no dedicated tty45 is available, then this mode must be chosen. If this mode is chosen then there MUST be writable devices listed on the classdef. No warning message will appear if there are no devices on the classdef.

`b` = Priority of the COT messages. A number from 0 (lowest) to 5. This priority determines how important it is that the COT messages be printed. If many messages are sent to a device, and the priority is not very high for the COT message, it may not be printed.

4. SYSTEM RESPONSE

`NA` = No acknowledgement. The COT process is too busy to handle the request. No changes have been made. Retry the input message later.

`PF` = Printout follows. Followed by the OP:COT-STATUS output message showing the status and priority set by this message.

5. REFERENCES

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Input Message(s):

```
OP:COT-STATUS
```

Output Message(s):

```
OP:COT-STATUS
REPT:COT-BUF
```

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SET:DCC

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a destination code cancellation (DCC) control to be set or modified to restrict traffic to a specified destination code. The DCC control is initiated or modified for routine or all levels of precedence.

This input message is used only in the defense switched network (DSN).

2. FORMAT

```
SET:DCC,CODE=a,GAP=b,TRAFFIC=c[,ANN=d];
```

3. EXPLANATION OF MESSAGE

`a` = Destination code (up to 15 characters; valid characters 0-9). The digits entered may be on the form of NYXNNXXXXX, where NYX is the area code, NNX is the office code, and XXXX is the line number. However, any of the left-most subsets of NYXNNXXXXX (such as, N, NY, NYX, NYXN, NYXNN, NYXNNX, NYXNNXX) can be entered as the control code.

`b` = Gap interval. Valid value(s):

`0`	= No control but collect measurements.
`PT1`	= 0.10 sec.
`PT12`	= 0.12 sec.
`PT14`	= 0.14 sec.
`PT16`	= 0.16 sec.
`PT18`	= 0.18 sec.
`PT25`	= 0.25 sec.
`PT36`	= 0.36 sec.
`PT5`	= 0.50 sec.
`PT6`	= 0.6 sec.
`PT75`	= 0.75 sec.
`1`	= 1.0 sec.
`1PT6`	= 1.6 sec.
`2`	= 2.0 sec.
`3`	= 3.0 sec.
`2`	= 2.0 sec.
`5`	= 5.0 sec.
`6`	= 6.0 sec.
`9`	= 9.0 sec.
`10`	= 10.0 sec.
`12`	= 12.0 sec.
`15`	= 15.0 sec.
`20`	= 20.0 sec.
`30`	= 30.0 sec.
`45`	= 45.0 sec.

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60	= 60.0 sec.
75	= 75.0 sec.
100	= 100.0 sec.
120	= 120.0 sec.
150	= 150.0 sec.
300	= 300.0 sec.
450	= 450.0 sec.
600	= 600.0 sec.
INF	= Infinity, all calls blocked.

c = Traffic type subject to the control. Valid value(s):

ALL	= All levels of precedence, for example, flash override, flash, immediate, priority, and routine.
RTN	= Routine traffic only.

d = Announcement treatment if blocking occurs. Valid value(s):

EANN1	= Emergency announcement 1.
EANN2	= Emergency announcement 2.
NCA	= No circuit announcement.
ICA	= Isolated code announcement (default).

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SET:DCC output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:DCC
OP:DCC
```

Output Message(s):

```
SET:DCC
```

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

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109 (OVERLOAD)
130 (NM EXCEPTION)

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SET:DSE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the trapping and printing of direct signaling events (DSEs) be turned on. These events will be reported in the REPT:ACP-APP-SM, REPT:ASP, REPT:DSE, REPT:MS-TRAPPED, REPT:NS and REPT:OSPS-DSE output messages.

2. FORMAT

```
SET:DSE=a[,DUR=b];
```

3. EXPLANATION OF MESSAGE

`a` = Event to be trapped and printed. Valid value(s):

- `AILSGMG` = Automated inward line screening (AILS) message received with invalid format reply.
- `AILSMRQ` = AILS error - misrouted query.
- `AILSTOT` = AILS query timed out before a reply was received.
- `AILSTRF` = AILS error - task refused.
- `AILSUDV` = AILS error - message received with unexpected input data value.
- `ASPACGCOMP` = Advanced services platform (ASP) service control point (SCP) response or unidirectional message with an automatic call gap (ACG) component received at the switch.
- `ASPBADRESP` = ASP SCP response message received with invalid data.
- `ASPNORTEMSG` = ASP reject message, a return error, or a play announcement received at the switch from the SCP.
- `ASPQRYFAIL` = ASP query blocked by network management(NM) ACG, a returned query or conversation received at the switch or a time out received in call processing.
- `ASPSNCOMP` = ASP SCP response message with a send notification received at the switch.
- `ASPTNMSG` = ASP termination notification message sent from the switch to the SCP.
- `CASDBOV` = Customer account services (CAS) message received indicating database overload.
- `CASDBUN` = CAS message returned - database unable to process.
- `CASGMSG` = CAS message received garbled.
- `CASNBLK` = CAS message returned because of network blockage.
- `CASNCON` = CAS message returned because of network congestion.
- `CASNRTE` = CAS message returned because of no routing data.
- `CASTOUT` = CAS message returned because of timeout.
- `CASUNEQ` = CAS message returned because of unequipped destination.
- `CASURPY` = CAS message received with an unexpected reply.
- `CAS7ABM` = CAS common channel signaling 7 (CCS7) abort message received.
- `CAS7ACG` = CAS CCS7 ACG invoke component received.
- `CAS7GMG` = CAS CCS7 received with invalid format reply.
- `CAS7GWE` = CAS CCS7 error - gateway error.
- `CAS7MPR` = CAS CCS7 error - message received with missing parameter.

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CAS7MRQ = CAS CCS7 error - misrouted query.
CAS7NCG = CAS CCS7 message returned because of network congestion.
CAS7NFL = CAS CCS7 message returned because of network failure.
CAS7RCR = CAS CCS7 reject component received.
CAS7SCG = CAS CCS7 message returned because of subsystem congestion.
CAS7SFL = CAS CCS7 message returned because of subsystem failure.
CAS7TAN = CAS CCS7 message returned - no translation data for address of such nature.
CAS7TOT = CAS CCS7 query which timed out before reply received.
CAS7TRF = CAS CCS7 error - task refused.
CAS7TSA = CAS CCS7 message returned - no translation data for this specific address.
CAS7UDV = CAS CCS7 error - message received with unexpected input data value.
CAS7UPR = CAS CCS7 error - message received with unexpected parameter.
CAS7UQD = CAS CCS7 message returned - unqualified.
CAS7URY = CAS CCS7 received with unexpected reply.
CAS7UUR = CAS CCS7 message returned - unequipped user.
CAS7VCD = CAS CCS7 error - vacant code.
CCDDBOV = BVA calling card (CCRD) message received indicating database overload.
CCDDBUN = BVA CCRD message returned- database unable to process.
CCDGMSG = BVA CCRD message received garbled.
CCDNBLK = BVA CCRD message returned because of network blockage.
CCDNCON = BVA CCRD message returned because of network congestion.
CCDNRTE = BVA CCRD message returned because of no routing data.
CCDUNEQ = BVA CCRD message returned because of unequipped destination.
CCDURPY = BVA CCRD message received with an unexpected reply.
ICCVABM = International credit card validation (ICCV) abort message received.
ICCVDBU = ICCV error - message returned - database unavailable.
ICCVEMF = ICCV error in message format.
ICCVGMG = ICCV received with invalid format reply.
ICCVMPR = ICCV error - message received with missing parameter.
ICCVMRQ = ICCV error - misrouted query.
ICCVNCG = ICCV message returned because of network congestion.
ICCVNFL = ICCV message returned because of network failure.
ICCVRCR = ICCV reject component received.
ICCVSCG = ICCV message returned because of subsystem congestion.
ICCVSFL = ICCV message returned because of subsystem failure.
ICCVTAN = ICCV message returned - no translation data for address of such nature.
ICCVTOT = ICCV query which timed out before reply received.
ICCVTSA = ICCV message returned - no translation data for this specific address.
ICCVUDV = ICCV error - message received with unexpected input data value.
ICCVUPR = ICCV error - message received with unexpected parameter.
ICCVUQD = ICCV message returned - unqualified.
ICCVURY = ICCV received with unexpected reply.
ICCVUUR = ICCV message returned - unequipped user.
INWBLKD = Inward wide area telecommunications service (INWATS) returned blocked.
INWBUSY = INWATS all lines busy.
INWCCBL = INWATS code control blocked.
INWDBOV = INWATS database overload.
INWDBTO = INWATS database timeout.

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INWDSBL = INWATS direct signaling blocked.
INWNNPA = INWATS nonpurchased numbering plan area (NPA).
INWNOXL = INWATS returned no translation.
INWONPA = INWATS invalid originating numbering plan area (ONPA).
INWOVLD = INWATS returned overload.
INWUNEQ = INWATS returned unequipped.
INWVLIN = INWATS vacant line number.
INWVNXX = INWATS vacant NXX.
LACABM = Line application for consumers (LAC) abort message received.
LACACG = LAC invoke component received.
LACGMG = LAC message received with invalid format.
LACMPR = LAC error - message received with missing parameter.
LACMRQ = LAC error - misrouted query.
LACNCG = LAC message returned because of network congestion.
LACNFL = LAC message returned because of network failure.
LACRCR = LAC reject component received.
LACSCG = LAC message returned because of subsystem congestion.
LACSFL = LAC message returned because of subsystem failure.
LACTAN = LAC message returned - no translation data for address of such nature.
LACTOT = LAC query timed out before a reply was received.
LACTRF = LAC error - task refused.
LACTSA = LAC message returned - no translation data for this specific address.
LACUDV = LAC error - message received with unexpected input data value.
LACUPR = LAC error - message received with unexpected parameter.
LACUQD = LAC message returned - unqualified.
LACURY = LAC unexpected reply.
LACUUR = LAC message returned - unequipped user.
LACVCD = LAC error - vacant code.
LIDBCGI = Line information database (LIDB) message with a call gapping indicator present.
LIDBGM = LIDB garbled message.
LIDBMGM = LIDB return value missing group or misrouted.
LIDBNAN = LIDB return value no translation for an address of such nature.
LIDBNCG = LIDB return value network congestion.
LIDBNFL = LIDB return value network failure.
LIDBNPG = LIDB return value nonparticipating group.
LIDBNSA = LIDB return value no translation for this specific address.
LIDBREJ = LIDB reject message received.
LIDBSCG = LIDB return value subsystem congestion.
LIDBSFL = LIDB return value subsystem failure.
LIDBTO = LIDB message missed because of timeout.
LIDBUP = LIDB message with unexpected reply.
LIDBUUR = LIDB return value unequipped user.
LNBAS = Call failed due to the query being blocked at the switch.
LNBN = Call failed due to the query being blocked in the common channel signaling (CCS) network.
LNGTCAP = Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.
LNNCANI = Centralized automatic message accounting (CAMA) call failed due to CAMA

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trunk not providing automatic number identification (ANI) for query.

LNNCFA = Call failure due to some reason while the transaction with the network control point (NCP) is active.

LNNCFI = Call failure due to some reason while the transaction with the NCP is inactive.

LNRER = Call failed due to the conversation with the NCP resulting in a return error response.

LNRR = Call failed due to the conversation with the NCP resulting in a reject response.

LNTIM = Call failed due to the query not being answered in time by the NCP.

LNTRF = Call failed due to the NCP answering with a terminate request.

MSFAILRCVD = A Message Service System (MSS) reject message or a Return error message was received at the near/far switch from the far/near switch respectively.

MSFAILSENT = An MSS reject message or a return error message was sent to the near/far switch from the far/near switch respectively.

MSQRYFAIL = A timeout was received in the MSS. A return query was received at the near switch because of network failure or failure to send a query.

NCDAFTA = Network call denial (NCD) denied after answer.

NCDBEFA = NCD denied before answer.

NCDBLKD = NCD returned blocked.

NCDCCBL = NCD code control blocked.

NCDDBOV = NCD database overload.

NCDDENY = NCD deny received.

NCDDSBL = NCD direct signaling blocked.

NCDNOXL = NCD returned no translation.

NCDOVLD = NCD returned overload.

NCDUNEQ = NCD returned unequipped.

NSACGCOMP = Number services (NS) service control point (SCP) response message with an automatic call gap (ACG) component received at the switch.

NSBADRESP = NS SCP response message with invalid data.

NSNONRTEMSG = NS reject message, a return error or a play announcement received at the switch from SCP.

NSQRYFAIL = NS query blocked by network management (NM) ACG, a return query received at the switch or a time out received in call processing.

NSSNCOMP = NS response message with a send notification received at the switch.

NSTNMSG = NS termination notification message sent from the switch to the SCP.

OLNPABM = OSPS LNP abort message received.

OLNPACG = OSPS LNP ACG invoke component received.

OLNPECR = OSPS LNP error code received.

OLNPGMG = OSPS LNP received with invalid format reply.

OLNPNCG = OSPS LNP message returned because of network congestion.

OLNPNFL = OSPS LNP message returned because of network failure.

OLNPRCR = OSPS LNP reject component received.

OLNPSCG = OSPS LNP message returned because of subsystem congestion.

OLNPSFL = OSPS LNP message returned because of subsystem failure.

OLNPTOT = OSPS LNP query which timed out before reply received.

OLNPTSA = OSPS LNP message returned - no translation data for this specific address.

OLNPTSN = OSPS LNP message returned - no translation data for address of such nature.

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OLNPUQD = OSPS LNP message returned - unqualified.
OLNPURY = OSPS LNP received with unexpected reply.
OLNPUUR = OSPS LNP message returned - unequipped user.
RATDBOV = Rating message received indicating database overload.
RATDBUN = Rating message returned- database unable to process.
RATGMSG = Rating message received garbled.
RATTOUT = Rating message returned because of timeout.
RATURPY = Rating message received with an unexpected reply.
SDNBAS = Call failed due to the query's being blocked at the switch.
SDNBN = Call failed due to the query's being blocked in the common channel signaling (CCS) network.
SDNGTCAP = Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.
SDNNCANI = Centralized automatic message accounting (CAMA) call failed due to CAMA trunk's not providing automatic number identification (ANI) for query.
SDNNCFA = Call failed while the transaction with the network control point (NCP) was active.
SDNNCFI = Call failed while the transaction with the NCP was inactive.
SDNNOCANI = CAMA call failed due to CAMA trunk's not providing ANI through operator number identification (ONI) for query.
SDNRER = Call failed because to the conversation with the NCP resulting in a return error response.
SDNRR = Call failed because to the conversation with the NCP resulting in a reject response.
SDNTIM = Call failed due to the query's not being answered in time by the NCP.
SDNTRF = Call failed due to the NCP's answering with a terminate request.

b = Duration (DUR) of DSE trapping and printing in minutes (range is 1-30) (default is 10).

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- SYSTEM TROUBLE = The trap could not be activated due to a problem in the system.
- TRAP ALREADY SET = The requested trap is already activated.

OK = Good. The request was received and the trap was successfully activated. If any direct signaling events occur, the output messages will report them until traps are turned off or expire.

5. REFERENCES

Input Message(s):

```
CLR:DSE
OP:ST-DSE
```

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Output Message(s):

```
OP:ST-DSE
REPT:ACP-APP-SM
REPT:ASP
REPT:DSE
REPT:MS-TRAPPED
REPT:NS
REPT:OSPS-DSE
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-190-120 *Common Channel Signaling Services*
235-190-12x *Advanced Services Platform*

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SET:DSNM5

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package (PKG) be added to the five minute (M5) surveillance data set of packages for the on-site network management channel. This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT

```
SET:DSNM5,PKG=a;
```

3. EXPLANATION OF MESSAGE

a	= Package name. Valid value(s):	
	ARC	= Alternate route cancellation control.
	CLCT	= Network management control counts.
	CLDIR	= Call direction.
	DCC	= Destination code cancellation control.
	DLYR	= Delayed readiness.
	IMA	= Additional ineffective machine attempts.
	OVRLD	= Overload or congestion control.
	RRC	= Manual reroute trunk group controls.
	SVC	= Critical service circuit.
	TGFLAG	= Trunk group flags.
	TGMEAS	= Basic trunk group measurements.

4. SYSTEM RESPONSE

PF	= Printout follows. Followed by the SET:DSNM5 output message.

5. REFERENCES

Input Message(s):

```
CLR:DSNM5
OP:DSNM5
OP:M5PKG
```

Output Message(s):

```
SET:DSNM5
```

Other Manual(s):

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235-900-113 *Product Specification*

MCC Display Page(s):

109 (OVERLOAD)
129 (DSN NM EXCEPTION)

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SET:ESA

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests to make a specified enhanced 911 service adjunct (ESA) active. This request can be a simple switch operation or a request to force an ESA active.

2. FORMAT

```
SET:ESA,ACTIVE=a[,FRC];
```

3. EXPLANATION OF MESSAGE

`FRC` = The ESA is to be forced active. Once an ESA is put into the forced active state, the specified ESA will remain active and no manual or automatic switches will be allowed until the force is removed using a CLR:ESA input message using the `FRC` option.

`a` = Attached processor ID (APID) of the ESA to be set active.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `FAILED TO SEND MESSAGE` = The request has been denied because the message cannot be sent to the communication module processor (CMP) to perform the requested action.
- `FEATURE NOT AVAILABLE` = The request has been denied because the dual ESA for E911 (SFID 108) and/or the dual ESA enhancements special feature (SFID 141) have not been purchased.
- `INVALID APID SPECIFIED` = The request has been denied because the APID specified is not one of the ESAs defined for this office.
- `NOT AN ESA OFFICE` = The request has been denied because the ESAs for the office have not been equipped (E911 OPTION field on RC/V View 8.1 is not ESA).
- `SYSTEM ERROR` = An internal system error has occurred while processing the request.

`PF` = Printout follows. A SET:ESA output message follows.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The message can not be sent. The communications module processor (CMP) is not available.
- `OTHER REQUEST IN PROGRESS` = Another ESA request is currently in progress.

5. REFERENCES

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Input Message(s):

```
CLR:ESA
OP:ESA
```

Output Message(s):

```
CLR:ESA
OP:ESA
REPT:ESA
SET:ESA-STATUS
```

Other Manual(s):
235-900-303 *ISDN Application Processor Interface Specification*

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
24.7 (DSL APPLICATION PROCESSOR COMMUNICATION DATA)

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SET:FRC-MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified side of the message switch control unit (MSCU) be forced active.

WARNING: If this message is used, the MSCU side specified will be unconditionally restored to an active forced (ACT FRCD) state and the other side put in the unavailable forced (UNAV FRCD) state. If the forced side is defective, fault recovery will not attempt to recover it. The use of this input message could result in the loss of transient calls if the MSCU forced contains the standby CMP. Use with extreme caution!

2. FORMAT

```
SET:FRC,MSCU=a;
```

3. EXPLANATION OF MESSAGE

`a` = Side of the MSCU to be forced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

`CLR:FRC-MSCU`

Input Appendix(es):

`APP:CM-IM-REASON`

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Output Message(s):

```
SET:FRC-MSCU
```

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SET:FRC-NCOSC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the forced (FRC) condition be set on the specified side of the network clock model 2 or 3 oscillator (NCOSC) to be used as the timing base for the office. If this message is used, the NCOSC side specified will be put to an active forced (ACT FRCD) state and the other side put in the unavailable forced (UNAV FRCD) state.

Note: For network clock model 2 (NC2) consider that a warmup period of 16 hours is required for a high stability oscillator to meet its stated requirements. The warmup period for a medium stability oscillator is one hour. For network clock model 3 (NC3) oscillator the warmup period is one and a half hours. During the warmup period, the oscillator may be forced into service if the operation of the office network and timing complex (ONTC) depends on it. This may cause a greater frequency of timing slips in HOLDOVER or FREERUN modes during this period.

2. FORMAT

```
SET:FRC,NCOSC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Side of the NCOSC to be forced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

`PF` = Printout follows. Followed by the SET:FRC-NCOSC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
CLR:FRC-NCOSC
DUMP:NC
```

Output Message(s):

```
DUMP:NC
```

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```
SET:FRC-NCOSC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1210(NETWORK CLOCK)
1211(NETWORK CLOCK REFERENCES)

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SET:FRC-ONTCCOM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified side of the office network and timing complex common unit (ONTCCOM) be forced active.

WARNING: If this message is used, the ONTCCOM side specified will be restored to an active forced (ACT FRCD) state unconditionally and the other side put in the unavailable forced (UNAV FRCD) state. If the forced side is defective, fault recovery will not attempt to recover it.

2. FORMAT

```
SET:FRC,ONTCCOM=a;
```

3. EXPLANATION OF MESSAGE

`a` = Side of the ONTCCOM to be forced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
CLR:FRC-ONTCCOM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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Output Message(s):

```
SET:FRC-ONTCCOM
```

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SET:FRC-TRCU3

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

This request is used to "force" active a particular function pack pair of a transmission rate conversion unit - model III (TRCU3) circuit. There is no force state of a function pair, so this request is accomplished by forcing the mate function pack to look faulty (Done by setting a hardware register). This command is needed to facilitate TRCU3 function pack replacement.

WARNING: If this message is used, the TRCU3 side and path specified will be force into service. If the forced side is defective, fault recovery will not attempt to recover it.

2. FORMAT

```
SET:FRC,TRCU3=a-b-c,{HOST|REMOTE};
```

3. EXPLANATION OF MESSAGE

a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= TRCU3 Path (TRCUPATH). This is the TRCUPATH connecting a host and remote TRCU3 circuits.
c	= Side. This is the side of the CM which the function pack is connected that is desired to be forced active.
HOST	"HOST" refers to the TRCU3 at the host location next which connects to the communications module (CM).
REMOTE	"REMOTE" refers to the TRCU3 at the remote location which is connected to the optically remoted (switching) module (ORM).

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request. Refer to the SET FRC TRCU3 output manual page.
PF	= Printout follows.
RL	= Retry later. The request cannot be executed now.

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5. REFERENCES

Input Message(s):

```
CLR:FRC-TRCU3
```

Output Message(s):

```
CLR FRC-TRCU3
SET FRC-TRCU3
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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SET:HPRI

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To requests that a terminal be set up as a high priority terminal.

This input message is for activating the high priority terminal feature. This feature sets terminal priority to high to improve the response time of output messages. Page pokes and command pokes will not be affected.

WARNING: Usage of this input message may impact the processing of messages on other terminals as well as some system generated output messages. Other terminals may see some delays in output response times since higher priority is given to messages processed at the selected high priority terminal.

2. FORMAT

```
SET:HPRI[,DUR=a];
```

3. EXPLANATION OF MESSAGE

`a` = Time duration in minutes (5 to 360). If none is specified, a default of 360 minutes will be used.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. Followed by the SET:HPRI output message.

`NG` = No good. The input message entered is invalid. May also include:
`- SPECIAL FEATURE NOT AVAILABLE` = Secured feature bit is not turned on.

5. REFERENCES

Input Message(s):

```
OP:HPRI
CLR:HPRI
```

Output Message(s):

```
SET:HPRI
```

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SET:IODRV

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the input/output processor (IOP) driver (IODRV) print messages.

Note: Using the SET:IODRV input message without the options turns on all severity levels, handler identifiers, and classes, but does not change the setting for saving IOP error messages.

2. FORMAT

```
SET:IODRV[:[LVL=a[&a[&a]]][,ID=b[&b[&b...]]][,CLASS=c[&c[&c...]]]
[,MSGSAVE]];
```

3. EXPLANATION OF MESSAGE

`MSGSAVE` = Save all IOP error messages in the logfile IODRVLOG.

`a` = Severity level. 1-3, where one is the most severe setting and three is the least severe.

`b` = Handler identifications. Valid value(s):

`ALL`	= All IDs.
`APH`	= Application protocol handler.
`APPL1-APPL5`	= Reserved for application handlers.
`CIH`	= End user interface handler.
`DUIH`	= Direct user interface handler.
`IOP`	= Input/output processor driver.
`MAINT`	= Maintenance handler.
`MTH`	= Magnetic tape handler.
`NPH`	= Network protocol handler.
`SCSDH`	= Scanner and signal distributor handler.
`SDLH`	= Synchronous data link handler.
`SPH`	= Session protocol handler.
`TPH`	= Transport protocol handler.

`c` = 32 classes available, but none are assigned.

4. SYSTEM RESPONSE

`NG` = No good. Conflict with system status.

`PF` = Printout follows. Followed by the SET:IODRV output message.

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5. REFERENCES

Input Message(s):

```
CLR:IODRV
OP:IODRV
```

Output Message(s):

```
OP:IODRV
SET:IODRV
```

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SET:ISOL-CM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the communication module (CM) be isolated from the administrative module (AM). This request configures the message switch control unit (MSCU) so that it operates independent of the AM. The configuration is performed unconditionally. The CM remains isolated until a CLR:ISOL-CM input message is entered, a manual D4 initialization is performed, or isolation is cleared using the application parameter 't' on the EAI page.

This input message is only applicable to offices having CM2-vintage communication modules.

WARNING: While the CM is isolated from the AM, no communication is possible between the AM and SMs or CMPs. Functionality requiring such communication, including common channel signaling (CCS) call processing, and AM-directed maintenance activities will not be available. If an SM's communication link configuration is non-optimal, it may become call processing-isolated when this input message is invoked. This input message should only be used as directed by the System Recovery Manual or by support personnel.

2. FORMAT

```
SET:ISOL,CM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by a SET:ISOL-CM output message.

5. REFERENCES

Input Message(s):

```
CLR:ISOL-CM
```

Output Message(s):

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```
CLR:ISOL-CM
SET:ISOL-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

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SET:ISOL-SM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that a switching module (SM) or a range of SMs be isolated. This request configures communication link hardware to take down level 2 protocol on any active links. The configuration is performed unconditionally. An isolated SM remains isolated until a CLR:ISOL input message is received.

If the SM is a remote switching module (RSM), then the host digital facility interfaces (HDFIs) carrying control channels at the host switching module (HSM) for this RSM will be disabled. The cluster digital facility interfaces (CDFIs) linking the RSM to other members of a multi-module RSM cluster will also be disabled, unless the NOSEP option is specified.

2. FORMAT

```
SET:ISOL,SM=a[&&b][,NOSEP|QLPS|ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = All. Manually isolate the SM from the control time slot (CTS) network, the quad-link packet switch (QLPS) network (if applicable), and any other members of a multimodule RSM (if applicable). This includes disconnecting all equipped communication links (CLNKs)/QLPS communication links (QLNKs)/inter-switching module QLNKs (ISMQLNKs). This is the default option.

`NOSEP` = Do not isolate RSMs from other members of multi-module RSM clusters.

`QLPS` = Quad-link packet switch. Manually isolate this SM from the QLPS network only. This includes disconnecting all equipped QLNKs/ISMQLNKs on the SM-2000.

`a` = SM number, or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows. Followed by a SET:ISOL-SM output message.

5. REFERENCES

Input Message(s):

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```
CLR:ISOL-SM
```

Output Message(s):

```
CLR:ISOL-SM
SET:ISOL-SM
```

Input Appendix(es):

```
APP:RANGES
```

SET:ISUP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the trapping and printing of intergrated services digital network (ISDN) user part (ISUP) events be turned on. These events will be reported in the REPT:ISUP output message.

2. FORMAT

```
SET:ISUP=ATPUUI[,DUR=b];
```

3. EXPLANATION OF MESSAGE

`ATPUUI` = Access transport parameter (ATP) user-to-user information (UUI).

`a` = Event to be trapped and printed.

`b` = Duration (DUR) of ISUP trapping and printing in minutes (range is 1-30) (default is 10).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SYSTEM TROUBLE` = The trap could not be activated due to a problem in the system.
- `TRAP ALREADY SET` = The requested trap is already activated.

`OK` = Good. The request was received and the trap was successfully activated. If any direct signaling events occur, the REPT:ISUP output message will report them until traps are turned off.

5. REFERENCES

Input Message(s):

```
CLR:ISUP
OP:ST-ISUP
```

Output Message(s):

```
OP:ST-ISUP
REPT:ISUP
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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SET:LUCHAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an out-of-service line unit channel (LUCHAN) circuit be set to a specific state. This allows the circuit either to be placed into a deferred maintenance state in which it has no effect on system indicators, or to be returned to the normal maintenance state.

2. FORMAT

```
SET:LUCHAN=a-b-c-d-e,{DEFR|RMVD};
```

3. EXPLANATION OF MESSAGE

`DEFR` = Place the circuit into deferred maintenance state.

`RMVD` = Place the circuit into standard out-of-service maintenance state.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. May also include:

- `IM OR SM DOES NOT EXIST`
- `IM OR SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the SET:LUCHAN output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Output Message(s):

SET:LUCHAN

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

103y,x - 104y,x (LINE UNIT SERVICE GROUP)

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SET:M5-A

Software Release: 5E15 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package be added to the five-minute (M5) surveillance data set of packages for the on-site network management channel.

2. FORMAT

```
SET:M5,PKG=a;
```

3. EXPLANATION OF MESSAGE

`a` = Package. Valid value(s):

- `ASPTF` = Advanced services platform toll free counts.
- `BICCMEAS` = Bearer independent call control measurements.
- `BNP` = Basic number portability measurements.
- `CCS` = Common channel signaling general service measurements.
- `CCSP` = Common channel signaling special service measurements.
- `CGAP` = Code control.
- `CLCT` = Network management control counts.
- `CLDIR` = Call direction.
- `DLYR` = Delayed readiness.
- `EON5` = End office nodal phase 5.
- `GETSHPC` = Government emergency telecommunications service high probability of call completion.
- `HPCBICC` = High probability of call completion BICC group.
- `HPCTG` = High probability of call completion trunk group.
- `IECSST` = Inter-exchange carrier start signal timeout counts.
- `IECSTG` = Inter-exchange carrier shared trunk group counts.
- `IMA` = Additional ineffective machine attempts.
- `LN` = Leased network action point.
- `LNCU` = Leased network office-wide measurements for critical users.
- `LNNODE` = Leased network node-to-node measurements.
- `MLNC` = Failure to match and no circuit.
- `NS` = Number services.
- `OVRLD` = Overload or congestion.
- `RRC` = Manual reroute trunk group controls.
- `SDN` = Action control point for software defined networks.
- `SVC` = Critical service circuits.
- `TGFLAG` = Trunk group flags.
- `TGMEAS` = Basic trunk group.
- `WBTGMEAS` = Wideband trunk group.

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4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by one of the SET:M5-PKG output messages.

5. REFERENCES

Input Message(s):

```
CLR:M5
OP:M5
OP:M5PKG
```

Output Message(s):

```
SET:M5-PKG
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

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SET:M5-B

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package be added to the five-minute surveillance data set of packages for the on-site network management channel.

2. FORMAT

```
SET:M5,PKG=a;
```

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):

- ASPTF = Advanced services platform toll free counts.
- BICCMEAS = Bearer independent call control measurements.
- BNP = Basic number portability measurements.
- CCS = Common channel signaling general service measurements.
- CCSP = Common channel signaling special service measurements.
- CGAP = Code control.
- CLCT = Network management control counts.
- CLDIR = Call direction.
- CMIX = Call mix.
- DLYR = Delayed readiness.
- EON5 = End office nodal phase 5.
- GETSHPC = Government emergency telecommunications service high probability of call completion.
- HPCBICC = High probability of call completion BICC group.
- HPCTG = High probability of call completion trunk group.
- HTRDDC = Hard to reach measurements.
- ICMP = Internet protocol/internet control message protocol (IP/ICMP) measurements.
- IECSST = Inter-exchange carrier start signal timeout counts.
- IECSTG = Inter-exchange carrier shared trunk group counts.
- IMA = Additional ineffective machine attempts.
- LN = Leased network action point.
- LNCU = Leased network office-wide measurements for critical users.
- LNNODE = Leased network node-to-node measurements.
- MLNC = Failure to match and no circuit.
- NS = Number services.
- OVRLD = Overload or congestion.
- PKTGRP = Packet group measurements.
- RRC = Manual reroute trunk group controls.
- SCTP = Stream control transmission protocol measurements.
- SDN = Action control point for software defined networks.
- SIPT = Session initiated protocol for telephony measurements.

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SL	= Signaling link.
SVC	= Critical service circuits.
TGFLAG	= Trunk group flags.
TGMEAS	= Basic trunk group.
WBTGMEAS	= Wideband trunk group.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by one of the SET:M5-PKG output messages.

5. REFERENCES

Input Message(s):

```
CLR:M5
OP:M5
OP:M5PKG
```

Output Message(s):

```
SET:M5-PKG
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

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SET:MCTSI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified side of module control/time slot interchange units (MCTSI) be forced to the active state, by using the administrative module intervention (AMI).

WARNING: Use of this message may result in a switch of MCTSI(s). If so, then at least a single process purge will occur in each switching module (SM).

2. FORMAT

```
SET:MCTSI=a[&&b]-c,FRC;
```

3. EXPLANATION OF MESSAGE

If forcing the units results in a switch, then at least a single process purge will occur.

`FRC` = Force the unit to the active state.

`a` = SM number or lower limit for a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit for a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Module controller unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the RST:MCTSI output message.

5. REFERENCES

Output Message(s):

```
RST:MCTSI
SET:MCTSI
```

Input Appendix(es):

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APP:RANGES

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SET:MINMODE-CNI

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the common network interface (CNI) system be placed into min mode. In min mode, automatic fault recovery of the CNI system will be inhibited. No escalation from lower to higher levels of initialization will take place, and common channel signaling (CCS) call processing will be shut off.

The CNI system should be put into min mode only in extreme situations when automatic recovery is unsuccessful. The CNI system will not leave min mode until the CLR:MINMODE,CNI TTY input message is entered, or the switch is booted using 42!N!53 or 42!N!54 emergency action interface (EAI) pokes. When the CNI system is put into min mode, a CNI full initialization (level 4) will be performed.

WARNING: This message is CCS service affecting. All CCS call processing service will be discontinued. CNI min mode will remain in effect through all processor initializations until manually cleared using CLR:MINMODE-CNI input message or 42!N!53, 42!N!54, 54 EAI pokes.

2. FORMAT

```
SET:MINMODE,CNI,LVL4
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The request was unsuccessful because:
- The office is not equipped with CNI.
- Software level 5 (S5) initialization of CCSINIT failed.
- Some internal error occurred.

`PF` = Printout follows. The message has been accepted and an output message will follow.

5. REFERENCES

Input Message(s):

```
CLR:MINMODE-CNI
```

Output Message(s):

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```
INIT:CNI-LVL
```

MCC Display Page(s):

(CNI FRAME AND CCS LINK STATUS)

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SET:MINMODE-SM

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the selected switching module (SMs) be placed in minimum mode (minmode). This is accomplished by setting the appropriate SM inhibits and executing a high level initialization (SI or FI).

The SM inhibits which are set as a result of this message are minmode, software error checks, hardware error checks, application routine exercises, and application routine audits. In addition, output message brevity control is allowed. Minmode should only be used in extreme emergencies when all other normal recovery procedures have failed. The SM will be placed in a configuration such that all call processing is ignored. This inhibit will remain in effect through all processor initializations (with the exception of EAI input message 54) until manually cleared by the CLR:MINMODE input message or EAI input message 'n', which cancels the request.

WARNING: All call processing service will be discontinued.

2. FORMAT

```
SET:MINMODE,SM=a[&&b],FI[,PUMP|,NPUMP|,BPUMP][,LSM][,HSM][,RSM]
[,ORM][,TRM][,DRM];
```

3. EXPLANATION OF MESSAGE

`BPUMP` = Perform a full SM pump using the backup pump function. This pump uses the control time slots (no special hardware) and may succeed when a normal pump fails; however, it is at least 16 times slower than the normal pump. This option should be used on a pump peripheral controller (PPC) duplex failure of the AM peripheral hardware or failure of the bootstrapper hardware in the SM.

`HSM` = Select modules of the type host switching module.

`LSM` = Select modules of the type local switching module.

`NPUMP` = Perform a full SM pump using the normal pump function.

`ORM` = Select modules of the type optically remote switching module.

`PUMP` = Perform a full SM pump at the requested level (FI only). A normal pump (NPUMP) will be used unless a failure occurs, in which case a backup pump (BPUMP) will be selected automatically. This is the recommended option to request a full pump.

`RSM` = Select modules of the type remote switching module.

`TRM` = Select modules of the type two mile optically remote switching module.

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DRM = Select modules of the type distinctive remote switching module.

a = SM number, or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit of the range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = The desired initialization level. Valid value(s):
- FI = Full initialization (clear all stable calls).
- SI = Selective initialization (clear all transient calls).

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress.

NG = No good. The message was not accepted because:
- An illegal SM number or invalid range/type combination was specified.
- An illegal initialization level was specified.
- An illegal option was specified (only PUMP, NPUMP, or BPUMP are allowed).

5. REFERENCES

Input Message(s):

```
CLR:MINMODE-SM
INIT:SM
OP:SYSSTAT
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-220 *Corrective Maintenance*

235-105-250 *System Recovery Procedures*

MCC Display Page(s):

(INH& RCVRY CNTL)

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SET:MON-CID

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that necessary flags and parameter values are set for the call identification (CID) interface to the operating system for distributed switching (OSDS) monitor.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

2. FORMAT

```
SET:MON,CID,SM=a[,RST=b],{PORT=c|CLG=d|CLD=e|CHG=f};
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Flag indicating whether the monitor buffer should be reset after each call. The flag must be set to either ON or OFF.

`c` = The port the user is originating his test call from. This value may be any valid port number from relation FC_PORTTYP.

`d` = Calling number to be matched in the ISUP IAM before setting the CID bit in the PCBLA. The value may be any valid telephone number.

`e` = Called number to be matched in the ISUP IAM before setting the CID bit in the PCBLA. The value may be any valid telephone number.

`f` = Charged number to be matched in the ISUP IAM before setting the CID bit in the PCBLA. The value may be any valid telephone number.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows. Followed by the SET:MON output message.

`RL` = Retry later. System resource shortage.

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5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-FCN
SET:MON-SPEC
SET:MON-WTD
```

Output Message(s):

```
SET:MON
```

Input Appendix(es):

```
APP:RANGES
```

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SET:MON-DATA

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specific data for use with the operating system for distributed switching (OSDS) monitor be initialized.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

Note: An increase in the processor occupancy is directly related to the number of options specified for this message.

2. FORMAT

```
SET:MON,DATA,{AM|SM=a|CMP=b-c},{PRI=d,|PRG=e,|PRT=f,|PTM=g,|PSG=h,|PST=i,|
PDA=j,|PDM=k,|AD1=l,|AD2=m,|AD3=n,|AD4=o,|AD5=p,|AD6=q,|LA1=r,|LA2=s,|
LA3=t,|TIM=u};
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = 0 through 7. OSDS priority level to be monitored.

`e` = Operational kernel process (OKP), SM, or CMP program ID not process number of the process to be monitored. Valid value(s):

- 0 through 259 for OKP.
- 0 through 649 for SM.
- 0 through 149 for CMP.
- 65280 (H'FF00) - All program IDs
- 61440 (H'F000) - All program IDs except program IDs for priority 0 processes

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f = Any valid port number from relation FC_PORTTYP.

g = 0 through 65535 (0 means no filtering). Valid value(s):
- Time in milliseconds for filter value for per event snap shot (OKP).
- Time in 125-microsecond intervals for filter value for per event snap shot (SM|CMP).
- Time period in milliseconds for timed data dump (OKP|SM|CMP).

h = Switch maintenance kernel process (SMKP) program ID not process number of the process to be monitored. Valid value(s):
- 0 through 149.
- 65280 (H'FF00) - All program IDs.
- 61440 (H'F000) - All program IDs except program IDs priority 0 processes.

i = 0 through 65535 (0 means no filtering). Time in milliseconds for filter value for per event snap shot for SMKP.

j = Any hexadecimal value (0 - H'FFFFFFFF). Valid value(s):
- Data to be matched if control flag DAT or [SP6 (SM)] from a previous or subsequent SET:MON-WTD input message is turned on.
- Start time for automatic start/stop.

k = Any hexadecimal value (0 - H'FFFFFFFF). Mask value for data match if control flag DAT or [SP6 (SM)] from a previous or subsequent SET:MON-WTD input message is turned on.

l = Any hexadecimal value (0 - H'FFFFFFFF). Address number one of data to be dumped on per event snap shot.

m = Any hexadecimal value (0 - H'FFFFFFFF). Address number two of data to be dumped on per event snap shot.

n = Any hexadecimal value (0 - H'FFFFFFFF). Address number three of data to be dumped on per event snap shot.

o = Any hexadecimal value (0 - H'FFFFFFFF). Address number four of data to be dumped on per event snap shot.

p = Any hexadecimal value (0 - H'FFFFFFFF). Address number five of data to be dumped on per event snap shot.

q = Any hexadecimal value (0 - H'FFFFFFFF). Address number six of data to be dumped on per event snap shot.

r = Any hexadecimal value (0-H'FFFFFFFF). Process control block link area (PCBLA) first offset of data in PCBLA to be dumped on per event snap shot.

s = Any hexadecimal value (0-H'FFFFFFFF). PCBLA second offset of data in PCBLA to be dumped on per event snap shot.

t = Any hexadecimal value (0-H'FFFFFFFF). Process control block link area PCBLA third offset of data in PCBLA to be dumped on per event snap shot.

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u = Not used.

4. SYSTEM RESPONSE

NG = No good. Error in format.

PF = Printout follows. Followed by the SET:MON output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-FCN
SET:MON-SPEC
SET:MON-WTD
```

Output Message(s):

```
SET:MON
```

Input Appendix(es):

```
APP:RANGES
```

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SET:MON-FCN

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the special monitor action flags and/or the special monitor function execution flags be set.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

Note: An increase in the processor occupancy is directly related to the number of options specified for this message.

The SET:MON-FCN input message sets flags in the monitor control word OSCFFLAG. These flags are divided into two groups. The first group of flags, F00 through F15, is used to select special functions that may be pre-defined in the monitor code or added to the monitor code using a temporary software update. The associated function names are OSmonf00 through OSmonf15 in all processors. Setting a flag will allow the function to be executed only once. The actual execution of the special function occurs when the monitor is allowed and the "what to do" (WTD) special function control flag (CTL) is set to ON. Refer to the SET:MON-WTD input message. Repetitive execution of the special function requires the function to set its associated flag upon exit.

The second group of flags, F16 through F31, allows the monitor to gather data about operating system for distributed switching (OSDS) message types, collect per event data on OSDS messages from the administrative module (AM), switching module (SM), or communications module processor (CMP), or automatically inhibit the monitor in the event of a real time or resource overload. The automatic inhibit occurs on the transition from the no overload state to minor or major overload state.

2. FORMAT

```
SET:MON,FCN,{AM|SM=a|CMP=b-c},d[=e][,d[=e]...];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the

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Input Messages manual.

`c` = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Flag (F00-F31). Valid value(s):

- `F00-F15` = Special monitor function execution flags (AM|SM|CMP).
- `F16` = Automatic monitor inhibit on real time overload (AM|SM|CMP).
- `F17` = Automatic monitor inhibit on resource overload (AM|SM|CMP).
- `F18` = Not assigned (AM|SM|CMP).
- `F19` = Not assigned (AM|SM|CMP).
- `F20` = Number of operating system for distributed switching (OSDS) messages sent by the SM or CMP to another processor (SM|CMP). Not assigned (AM).
- `F21` = Number of OSDS messages received by the SM or CMP from another processor (SM|CMP). Not assigned (AM).
- `F22` = Snap shot per event message data for the feature execution (FEX) environment (SM). Not assigned (AM|CMP).
- `F23` = Snap shot real time clock on per event message data (AM|SM|CMP).
- `F24` = Number of OSDS message type for operational kernel process (OKP) sent to a *UNIX*® RTR kernel or supervisory process (AM).
- `F25` = Snap shot per event message data for OKP messages to an RTR kernel or supervisory process (AM). Not assigned (SM/CMP).
- `F26` = Number of OSDS message type for RTR messages received by OKP (AM). Number of OSDS message type for messages received from another processor (SM|CMP).
- `F27` = Snap shot per event message data for RTR messages received by OKP (AM). Not assigned (SM|CMP).
- `F28` = Number of OSDS message type for messages received by OKP or CMP (AM/CMP). Number of OSDS message types for all messages received (SM).
- `F29` = Snap shot per event message data for SM/CMP messages within the AM (AM). Snap shot per event message data for all messages within that processor (SM|CMP).
- `F30` = Number of OSDS message type for OKP messages sent to other processors (AM). Number of OSDS message type for all messages sent to other processors from that processor (SM|CMP).
- `F31` = Snap shot per event message data for OKP messages sent to other processors (AM). Snap shot per event message data for all messages sent by the SM to other processors (SM|CMP).

`e` = Requested state of special function or action. Valid value(s):

- `ON` = Enables the function (default).
- `OFF` = Disables the function.

4. SYSTEM RESPONSE

`NG` = No good. Error in format.

`PF` = Printout follows. Followed by the SET:MON output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-SPEC
SET:MON-WTD
```

Output Message(s):

```
SET:MON
```

Input Appendix(es):

```
APP:RANGES
```

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SET:MON-SPEC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that data words for the timed data dump feature or special function use be initialized.

The SET:MON-SPEC message is used to initialize addresses for the timed data dump feature or miscellaneous data for any other use of the dispatch array, that is, data needed by a special function. Parameters S00 through S45 correspond to words 0 through 45 of the monitor buffer dispatch array area. This maps to location "OSHAMDSP" in the AM monitor buffer "OShisarray" and "OSHSMDSP" in the SM monitor buffer "SIhistory", and "OSHSMDSP" in the CMP monitor buffer "SIhistory".

Note: This symbolic address is not the start of the monitor buffer. Data values S00 through S45 are full words (4 bytes).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

Note: An increase in the processor occupancy is directly related to the number of options specified for this message.

2. FORMAT

```
SET:MON,SPEC,{AM|SM=a|CMP=b-c},d=e...;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Messages switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Flag index value (S00-S45).

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e = Special data to be set in the monitor buffer in hexadecimal.

4. SYSTEM RESPONSE

NG = No good. Error in format.

PF = Printout follows. Followed by the SET:MON output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-FCN
SET:MON-WTD

Output Message(s):

SET:MON

Input Appendix(es):

APP:RANGES

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SET:MON-WTD-A

Software Release: 5E15 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the monitor control flags that select "What To Do" actions or "What To Dump" fields be set or cleared.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

Note: An increase in the processor occupancy is directly related to the number of options specified for this message.

2. FORMAT

```
SET:MON,WTD,{AM|SM=a|CMP=b-c},{BEG[=d],|END[=d],|HUF[=d],|HIJ[=d],|
HHH[=d],|HPD[=d],|DUF[=d],|DIJ[=d],|DPD[=d],|DPY[=d],|DOX[=d],|HMH[=d],|
DMH[=d],|HSP[=d],|HSX[=d],|DSP[=d],|DSX[=d],|HMX[=d],|DMP[=d],|DMX[=d],|
HAP[=d],|DAP[=d],|DAT[=d],|DAD[=d],|SEG[=d],|SP0[=d],|SP1[=d],|SP2[=d],|
SP3[=d],|SP4[=d],|SP5[=d],|SP6[=d],|SP7[=d],|ACL[=d],|APP[=d],|AID[=d],|
ASA[=d],|ADM[=d],|ADS[=d],|ADO[=d],|APC[=d],|AAA[=d],|CTL[=d]};
```

3. EXPLANATION OF MESSAGE

`AAA` = For the AM, SM or CMP, shorthand that includes options ACL, APP, AID and ASA.

`ACL` = For the AM, SM or CMP, clock time in milliseconds for per event snap shot.

`ADM` = For the AM, snap shot address data on MSKP process dispatch.

`ADO` = For the AM, snap shot address data on OKP process dispatch. For the SM or CMP, snap shot address data on SM process dispatch.

`ADS` = For the AM, snap shot address data on SMKP process dispatch.

`AID` = For the AM, SM or CMP, snap shot priority, event identifier, and time in event for per event snap shot.

`APC` = For the SM or CMP, snap shot data from PCBLA on SM process dispatch.

`APP` = For the AM, SM or CMP, program ID and PCB index for per event snap shot.

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`ASA` = For the AM, SM or CMP, segment start address of other data for per event snap shot.

`BEG` = For the AM, SM or CMP, when '`d`' = `ON`, sets the monitor to zero the index (OSCINDEX) into the dispatch array area of the monitor buffer. When '`d`' = `OFF`, cause no action.

`CTL` = For the AM, SM or CMP, activate the special function control word.

`DAD` = For the AM, SM or CMP, not used.

`DAP` = For the AM, SM, or CMP, not used.

`DAT` = For the AM, SM or CMP, filter on address data match/mismatch for per event data snap shot.

`DIJ` = For the AM, SM or CMP, per event data snap shot on interject.

`DMH` = In the SM, filter on port number for per event data snap shot. In the AM or CMP, not used.

`DMP` = In the AM, per event data snap shot on MSKP program point. In the SM or CMP, not used (SM/CMP).

`DMX` = In the AM, per event data snap shot on MSKP entry/exit. In the SM or CMP, not used.

`DOX` = For the AM, SM or CMP, turn on no-wrap flag for dispatch array area.

`DPD` = For the AM, SM or CMP, per event data snap shot on process dispatch.

`DPY` = For the AM, SM or CMP, per event data snap shot on priority levels.

`DSP` = In the AM, per event data snap shot on SMKP process dispatch. In the SM or CMP, not used.

`DSX` = In the AM, per event data snap shot on SMKP entry/exit. In the SM or CMP, not used.

`DUF` = In the AM, per event data snap shot on OKP/*UNIX*® RTR operating system entry/exit. In the SM or CMP, per event data snap shot on foreground.

`END` = For the AM, SM, or CMP, sets/clears the stop flag to inhibit the monitor. Same as the input message INH:MON.

`HAP` = For the AM, SM, or CMP, not used.

`HHH` = In the AM, shorthand that includes options HUF, HIJ, HPD, HPY, HSP, HSX, and HMX. In the SM or CMP, shorthand that includes options HUF, HIJ, HPD, and HPY.

`HIJ` = For the AM, SM or CMP, count & time in milliseconds accumulation for interject.

`HMH` = In the AM, histogram time in milliseconds in OKP, *UNIX*® RTR operating system, interject, CCrcvcni, OKP Program ID(s), switch maintenance kernel process (SMKP), SMKP program IDs, message switch kernel process (MSKP) event, fault, and interrupt entries. In the SM or CMP, histogram time in milliseconds in foreground, interject, and program ID(s).

`HMX` = In the AM, count & time in milliseconds accumulation for MSKP entry/exit. In the SM or

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CMP, not used.

HPD = For the AM, SM, or CMP, count & time in milliseconds accumulation for program IDs AM/SM/CMP).

HPY = For the AM, SM, or CMP, count & time in milliseconds accumulation for priority levels.

HSP = In the AM, count & time in milliseconds accumulation for SMKP program IDs. In the SM or CMP, not used.

HSX = In the AM, count & time in milliseconds accumulation for SMKP entry/exit. In the SM or CMP, not used.

HUF = In the AM, count & time in milliseconds accumulation for operational kernel process (OKP) and *UNIX*® RTR operating system. In the SM or CMP, count & time in milliseconds accumulation for foreground.

SEG = For the AM, SM or CMP, process dispatch consecutive segment check.

SP0 = For the AM, SM or CMP, not used.

SP1 = For the AM, SM or CMP, not used.

SP2 = For the AM, SM or CMP, not used.

SP3 = For the AM, SM or CMP, automatic start/stop.

SP4 = For the AM, SM or CMP, inhibit monitor on data address match/mismatch.

= For the SM, inhibit monitor on process control block link area (PCBLA) match/mismatch.

SP5 = For the AM or CMP, reset dispatch array index on data address match/mismatch. For the SM, reset dispatch array index on PCBLA match/mismatch.

SP6 = For the AM or CMP, not used. For the SM, per event data snap shot on PCBLA match.

SP7 = For the AM, SM or CMP, timed data dump.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = State of flag. Valid value(s):

OFF = Clear the flag.

ON = Set the flag (default),

4. SYSTEM RESPONSE

NG = No good. Error in format.

PF = Printout follows. Followed by the SET:MON output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-FCN
SET:MON-SPEC
```

Output Message(s):

```
SET:MON
```

Input Appendix(es):

```
APP:RANGES
```

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SET:MON-WTD-B

Software Release: 5E16(2) only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the monitor control flags that select "what to do" actions or "what to dump" fields be set or cleared.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

An increase in the processor occupancy is directly related to the number of options specified for this message.

2. FORMAT

```
SET:MON,WTD,{AM|SM=a|CMP=b-c},d=e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Option. Valid value(s):

- `AAA` = For the AM, SM or CMP, shorthand that includes options ACL, APP, AID and ASA.
- `ACL` = For the AM, SM or CMP, clock time in milliseconds for per event snap shot.
- `ADM` = For the AM, snap shot address data on MSKP process dispatch.
- `ADO` = For the AM, snap shot address data on OKP process dispatch. For the SM or CMP, snap shot address data on SM process dispatch.
- `ADS` = For the AM, snap shot address data on SMKP process dispatch.
- `AID` = For the AM, SM or CMP, snap shot priority, event identifier, and time in event for per event snap shot.
- `APC` = For the SM or CMP, snap shot data from PCBLA on SM process dispatch.
- `APP` = For the AM, SM or CMP, program ID and PCB index for per event snap shot.
- `ASA` = For the AM, SM or CMP, segment start address of other data for per event snap shot.

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BEG	= For the AM, SM or CMP, when 'd' = ON, sets the monitor to zero the index (OSCINDEX) into the dispatch array area of the monitor buffer. When 'd' = OFF, cause no action.
CTL	= For the AM, SM or CMP, activate the special function control word.
DAD	= For the AM, SM or CMP, not used.
DAP	= For the AM, SM, or CMP, not used.
DAT	= For the AM, SM or CMP, filter on address data match/mismatch for per event data snap shot.
DIJ	= For the AM, SM or CMP, per event data snap shot on interject.
DMH	= In the SM, filter on port number for per event data snap shot. In the AM or CMP, not used.
DMP	= In the AM, per event data snap shot on MSKP program point. In the SM or CMP, not used (SM/CMP).
DMX	= In the AM, per event data snap shot on MSKP entry/exit. In the SM or CMP, not used.
DOX	= For the AM, SM or CMP, turn on no-wrap flag for dispatch array area.
DPD	= For the AM, SM or CMP, per event data snap shot on process dispatch.
DPY	= For the AM, SM or CMP, per event data snap shot on priority levels.
DSP	= In the AM, per event data snap shot on SMKP process dispatch. In the SM or CMP, not used.
DSX	= In the AM, per event data snap shot on SMKP entry/exit. In the SM or CMP, not used.
DUF	= In the AM, per event data snap shot on OKP/*UNIX*® RTR operating system entry/exit. In the SM or CMP, per event data snap shot on foreground.
END	= For the AM, SM, or CMP, sets/clears the stop flag to inhibit the monitor. Same as the input message INH:MON.
HAP	= For the AM, SM, or CMP, not used.
HHH	= In the AM, shorthand that includes options HUF, HIJ, HPD, HPY, HSP, HSX, and HMX. In the SM or CMP, shorthand that includes options HUF, HIJ, HPD, and HPY.
HIJ	= For the AM, SM or CMP, count & time in milliseconds accumulation for interject.
HMH	= In the AM, histogram time in milliseconds in OKP, *UNIX*® RTR operating system, interject, CCrcvcni, OKP program ID(s), switch maintenance kernel process (SMKP), SMKP program IDs, message switch kernel process (MSKP) event, fault, and interrupt entries. In the SM or CMP, histogram time in milliseconds in foreground, interject, and program ID(s).
HMX	= In the AM, count & time in milliseconds accumulation for MSKP entry/exit. In the SM or CMP, not used.
HPD	= For the AM, SM, or CMP, count & time in milliseconds accumulation for program IDs AM/SM/CMP).
HPY	= For the AM, SM, or CMP, count & time in milliseconds accumulation for priority levels.
HSP	= In the AM, count & time in milliseconds accumulation for SMKP program IDs. In the SM or CMP, not used.
HSX	= In the AM, count & time in milliseconds accumulation for SMKP entry/exit. In the SM or CMP, not used.
HUF	= In the AM, count & time in milliseconds accumulation for operational kernel process (OKP) and *UNIX*® RTR operating system. In the SM or CMP, count & time in milliseconds accumulation for foreground.

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QTRBUF	= For SM-2000s with CORE700 processor packs only, reduce the usable size of the OSDS monitor buffer by 75%. Note that the CORE700 pack has an OSDS monitor buffer four times larger than non-CORE700 SM-2000s.
SEG	= For the AM, SM or CMP, process dispatch consecutive segment check.
SP0	= For the AM, SM or CMP, not used.
SP1	= For the AM, SM or CMP, not used.
SP2	= For the AM, SM or CMP, not used.
SP3	= For the AM, SM or CMP, automatic start/stop.
SP4	= For the AM, SM or CMP, inhibit monitor on data address match/mismatch. = For the SM, inhibit monitor on process control block link area (PCBLA) match/mismatch.
SP5	= For the AM or CMP, reset dispatch array index on data address match/mismatch. For the SM, reset dispatch array index on PCBLA match/mismatch.
SP6	= For the AM or CMP, not used. For the SM, per event data snap shot on PCBLA match.
SP7	= For the AM, SM or CMP, timed data dump.

e = State of flag. Valid value(s):

OFF	= Clear the flag.
ON	= Set the flag (default),

4. SYSTEM RESPONSE

NG = No good. Error in format.

PF = Printout follows. Followed by the SET:MON output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-FCN
SET:MON-SPEC
```

Output Message(s):

```
SET:MON
```

Input Appendix(es):

```
APP:RANGES
```

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SET:MON-WTD-C

Software Release: 5E17(1) only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the monitor control flags that select "what to do" actions or "what to dump" fields be set or cleared.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

An increase in the processor occupancy is directly related to the number of options specified for this message.

2. FORMAT

```
SET:MON,WTD,{AM|SM=a|CMP=b-c},d=e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Option. Valid value(s):

- `AAA` = For the AM, SM or CMP, shorthand that includes options ACL, APP, AID and ASA.
- `ACL` = For the AM, SM or CMP, clock time in milliseconds for per event snap shot.
- `ADM` = For the AM, snap shot address data on MSKP process dispatch.
- `ADO` = For the AM, snap shot address data on OKP process dispatch. For the SM or CMP, snap shot address data on SM process dispatch.
- `ADS` = For the AM, snap shot address data on SMKP process dispatch.
- `AID` = For the AM, SM or CMP, snap shot priority, event identifier, and time in event for per event snap shot.
- `APC` = For the SM or CMP, snap shot data from PCBLA on SM process dispatch.
- `APP` = For the AM, SM or CMP, program ID and PCB index for per event snap shot.
- `ASA` = For the AM, SM or CMP, segment start address of other data for per event snap shot.

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BEG	= For the AM, SM or CMP, when 'd' = ON, sets the monitor to zero the index (OSCINDEX) into the dispatch array area of the monitor buffer. When 'd' = OFF, cause no action.
CTL	= For the AM, SM or CMP, activate the special function control word.
DAD	= For the AM, SM or CMP, not used.
DAP	= For the AM, SM, or CMP, not used.
DAT	= For the AM, SM or CMP, filter on address data match/mismatch for per event data snap shot.
DIJ	= For the AM, SM or CMP, per event data snap shot on interject.
DMH	= In the SM, filter on port number for per event data snap shot. In the AM or CMP, not used.
DMP	= In the AM, per event data snap shot on MSKP program point. In the SM or CMP, not used (SM/CMP).
DMX	= In the AM, per event data snap shot on MSKP entry/exit. In the SM or CMP, not used.
DOX	= For the AM, SM or CMP, turn on no-wrap flag for dispatch array area.
DPD	= For the AM, SM or CMP, per event data snap shot on process dispatch.
DPY	= For the AM, SM or CMP, per event data snap shot on priority levels.
DSP	= In the AM, per event data snap shot on SMKP process dispatch. In the SM or CMP, not used.
DSX	= In the AM, per event data snap shot on SMKP entry/exit. In the SM or CMP, not used.
DUF	= In the AM, per event data snap shot on OKP/*UNIX*® RTR operating system entry/exit. In the SM or CMP, per event data snap shot on foreground.
END	= For the AM, SM, or CMP, sets/clears the stop flag to inhibit the monitor. Same as the input message INH:MON.
HAP	= For the AM, SM, or CMP, not used.
HHH	= In the AM, shorthand that includes options HUF, HIJ, HPD, HPY, HSP, HSX, and HMX. In the SM or CMP, shorthand that includes options HUF, HIJ, HPD, and HPY.
HIJ	= For the AM, SM or CMP, count & time in milliseconds accumulation for interject.
HMH	= In the AM, histogram time in milliseconds in OKP, *UNIX*® RTR operating system, interject, CCrcvcni, OKP program ID(s), switch maintenance kernel process (SMKP), SMKP program IDs, message switch kernel process (MSKP) event, fault, and interrupt entries. In the SM or CMP, histogram time in milliseconds in foreground, interject, and program ID(s).
HMX	= In the AM, count & time in milliseconds accumulation for MSKP entry/exit. In the SM or CMP, not used.
HPD	= For the AM, SM, or CMP, count & time in milliseconds accumulation for program IDs AM/SM/CMP).
HPY	= For the AM, SM, or CMP, count & time in milliseconds accumulation for priority levels.
HSP	= In the AM, count & time in milliseconds accumulation for SMKP program IDs. In the SM or CMP, not used.
HSX	= In the AM, count & time in milliseconds accumulation for SMKP entry/exit. In the SM or CMP, not used.
HUF	= In the AM, count & time in milliseconds accumulation for operational kernel process (OKP) and *UNIX*® RTR operating system. In the SM or CMP, count & time in milliseconds accumulation for foreground.

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SEG	= For the AM, SM or CMP, process dispatch consecutive segment check.
SP0	= For the AM, SM or CMP, not used.
SP1	= For the AM, SM or CMP, not used.
SP2	= For the AM, SM or CMP, not used.
SP3	= For the AM, SM or CMP, automatic start/stop.
SP4	= For the AM, SM or CMP, inhibit monitor on data address match/mismatch. = For the SM, inhibit monitor on process control block link area (PCBLA) match/mismatch.
SP5	= For the AM or CMP, reset dispatch array index on data address match/mismatch. For the SM, reset dispatch array index on PCBLA match/mismatch.
SP6	= For the AM or CMP, not used. For the SM, per event data snap shot on PCBLA match.
SP7	= For the AM, SM or CMP, timed data dump.

e = State of flag. Valid value(s):

OFF	= Clear the flag.
ON	= Set the flag (default),

4. SYSTEM RESPONSE

NG = No good. Error in format.

PF = Printout follows. Followed by the SET:MON output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-FCN
SET:MON-SPEC
```

Output Message(s):

```
SET:MON
```

Input Appendix(es):

```
APP:RANGES
```

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SET:MON-WTD-D

Software Release: 5E18(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the monitor control flags that select "what to do" actions or "what to dump" fields be set or cleared.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

An increase in the processor occupancy is directly related to the number of options specified for this message.

2. FORMAT

```
SET:MON,WTD,{AM|SM=a|CMP=b-c},d=e;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Option. Valid value(s):

- `AAA` = For the AM, SM or CMP, shorthand that includes options ACL, APP, AID and ASA.
- `ACL` = For the AM, SM or CMP, clock time in milliseconds for per event snap shot.
- `ADM` = For the AM, snap shot address data on MSKP process dispatch.
- `ADO` = For the AM, snap shot address data on OKP process dispatch. For the SM or CMP, snap shot address data on SM process dispatch.
- `ADS` = For the AM, snap shot address data on SMKP process dispatch.
- `AID` = For the AM, SM or CMP, snap shot priority, event identifier, and time in event for per event snap shot.
- `APC` = For the SM or CMP, snap shot data from PCBLA on SM process dispatch.
- `APP` = For the AM, SM or CMP, program ID and PCB index for per event snap shot.
- `ASA` = For the AM, SM or CMP, segment start address of other data for per event snap shot.

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BEG	= For the AM, SM or CMP, when 'd' = ON, sets the monitor to zero the index (OSCINDEX) into the dispatch array area of the monitor buffer. When 'd' = OFF, cause no action.
CTL	= For the AM, SM or CMP, activate the special function control word.
DAD	= For the AM, SM or CMP, not used.
DAP	= For the AM, SM, or CMP, not used.
DAT	= For the AM, SM or CMP, filter on address data match/mismatch for per event data snap shot.
DIJ	= For the AM, SM or CMP, per event data snap shot on interject.
DMH	= In the SM, filter on port number for per event data snap shot. In the AM or CMP, not used.
DMP	= In the AM, per event data snap shot on MSKP program point. In the SM or CMP, not used (SM/CMP).
DMX	= In the AM, per event data snap shot on MSKP entry/exit. In the SM or CMP, not used.
DOX	= For the AM, SM or CMP, turn on no-wrap flag for dispatch array area.
DPD	= For the AM, SM or CMP, per event data snap shot on process dispatch.
DPY	= For the AM, SM or CMP, per event data snap shot on priority levels.
DSP	= In the AM, per event data snap shot on SMKP process dispatch. In the SM or CMP, not used.
DSX	= In the AM, per event data snap shot on SMKP entry/exit. In the SM or CMP, not used.
DUF	= In the AM, per event data snap shot on OKP/*UNIX*® RTR operating system entry/exit. In the SM or CMP, per event data snap shot on foreground.
END	= For the AM, SM, or CMP, sets/clears the stop flag to inhibit the monitor. Same as the input message INH:MON.
HAP	= For the AM, SM, or CMP, not used.
HHH	= In the AM, shorthand that includes options HUF, HIJ, HPD, HPY, HSP, HSX, and HMX. In the SM or CMP, shorthand that includes options HUF, HIJ, HPD, and HPY.
HIJ	= For the AM, SM or CMP, count & time in milliseconds accumulation for interject.
HMH	= In the AM, histogram time in milliseconds in OKP, *UNIX*® RTR operating system, interject, CCrcvcni, OKP program ID(s), switch maintenance kernel process (SMKP), SMKP program IDs, message switch kernel process (MSKP) event, fault, and interrupt entries. In the SM or CMP, histogram time in milliseconds in foreground, interject, and program ID(s).
HMX	= In the AM, count & time in milliseconds accumulation for MSKP entry/exit. In the SM or CMP, not used.
HPD	= For the AM, SM, or CMP, count & time in milliseconds accumulation for program IDs AM/SM/CMP).
HPY	= For the AM, SM, or CMP, count & time in milliseconds accumulation for priority levels.
HSP	= In the AM, count & time in milliseconds accumulation for SMKP program IDs. In the SM or CMP, not used.
HSX	= In the AM, count & time in milliseconds accumulation for SMKP entry/exit. In the SM or CMP, not used.
HUF	= In the AM, count & time in milliseconds accumulation for operational kernel process (OKP) and *UNIX*® RTR operating system. In the SM or CMP, count & time in milliseconds accumulation for foreground.

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QTRBUF	= For SM-2000s with CORE700 processor packs only, reduce the usable size of the OSDS monitor buffer by 75%. Note that the CORE700 pack has an OSDS monitor buffer four times larger than non-CORE700 SM-2000s.
SEG	= For the AM, SM or CMP, process dispatch consecutive segment check.
SP0	= For the AM, SM or CMP, not used.
SP1	= For the AM, SM or CMP, not used.
SP2	= For the AM, SM or CMP, not used.
SP3	= For the AM, SM or CMP, automatic start/stop.
SP4	= For the AM, SM or CMP, inhibit monitor on data address match/mismatch. = For the SM, inhibit monitor on process control block link area (PCBLA) match/mismatch.
SP5	= For the AM or CMP, reset dispatch array index on data address match/mismatch. For the SM, reset dispatch array index on PCBLA match/mismatch.
SP6	= For the AM or CMP, not used. For the SM, per event data snap shot on PCBLA match.
SP7	= For the AM, SM or CMP, timed data dump.

e = State of flag. Valid value(s):

OFF	= Clear the flag.
ON	= Set the flag (default),

4. SYSTEM RESPONSE

NG = No good. Error in format.

PF = Printout follows. Followed by the SET:MON output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-FCN
SET:MON-SPEC
```

Output Message(s):

```
SET:MON
```

Input Appendix(es):

```
APP:RANGES
```

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SET:MWI

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a Message Service System (MSS) message waiting indicator (MWI) be activated for a given seven-digit directory number (DN).

2. FORMAT

```
SET:MWI,DN=a[,FNAME=b];
```

3. EXPLANATION OF MESSAGE

`a` = The seven-digit DN to be validated.

`b` = The MSS feature on the seven-digit DN. If multiple MSS features are assigned to this DN, the feature must be specified to avoid incorrect feature activation.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- MUST ENTER A 7 DIGIT DN` = The DN field has more or less than seven digits in it. The DN field must contain digits only.

`RL` = Retry later. The message was not accepted because of a temporary lack of available resources.

`PF` = Printout follows. The DN validation request was accepted. Followed by the SET:MWI output message.

5. REFERENCES

Output Message(s):

`SET:MWI`

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SET:NC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the network clock (NC) of the office network and timing complex (ONTC) be set to a specific mode.

2. FORMAT

```
SET:NC=a,{NORM|FAST|HOLD};
```

3. EXPLANATION OF MESSAGE

`FAST` = Set the mode to fast phase lock.

`HOLD` = Set the mode to hold present lock.

`NORM` = Set the mode to normal phase lock.

`a` = ONTC side in which the network clock resides. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Output Message(s):

```
SET:NC
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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SET:NMTHD

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the network management threshold (NMTHD) values be changed for a given type of trunk group indicator in the TRUNK block of the defense switched network network management (DSN NM) Exception Page (page 129). This message is valid only for DSN switches.

2. FORMAT

```
SET:NMTHD,TYPE=a,VALUE=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Indicator type. Valid value(s):
- `ACH` = Indicator for attempt per circuit for example, trunks per hour.
- `CCH` = Indicator for connection per circuit for example, trunks per hour.
- `MU` = Indicator for maintenance usage.

`b` = Value for threshold 1.

`c` = Value for threshold 2.

`d` = Value for threshold 3.

`e` = Value for threshold 4.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID PARAMETER` = The request has been denied. An invalid parameter was entered.

`OK` = Good. The request was accepted and completed. The new threshold value is accepted.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

`ASGN:DPSCH`

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```
CLR:NMSCH
OP:NMTHD
```

Other Manual(s):
235-900-113 *Product Specification*

MCC Display Page(s):

(DSN NM EXCEPTION)
(OVERLOAD)

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SET:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the automatic protection switch (APS) state of an optical carrier - level 3 (OC3) be set to a higher priority state.

If no higher priority state than a forced switch (FS) exists on an OC3, FS away from side 1 of an OC3 will result in a transfer of the working channel from working side 1 to protect side 0. FS away from side 0 of an OC3 will result in a transfer of the working channel from side 0 to side 1. Manual switch (MS) is similar to FS, except MS is a lower priority request than FS. Setting an OC3 to LP switches away from side 0 and locks it from being used until the lockout is cleared.

WARNING: Switching away from an OC3 side will generate transient errors on the facilities.

When an OC3 side is made unavailable by an FS, LP, or RMV, the OC3 is reduced to a simplex configuration. Leaving a side unavailable may adversely impact service, such as loss of calls, if a failure occurs on the active side.

Switch maintenance activities that cause an OC3 to be removed from service will override any transmission configuration established by this command.

2. FORMAT

```
SET:OC3=a-b-c-d-e,f;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = State. Valid value(s):

`MS` = Manual switch.

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FS	= Forced switch.
LP	= Lockout of protection.

4. SYSTEM RESPONSE

NG	= No good. The message form is valid, but the request conflicts with current status.
PF	= Printout follows. Followed by the SET:OC3 output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:OC3
RST:OC3
STP:OC3
```

Output Message(s):

```
SET:OC3
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3 STATUS

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SET:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the automatic protection switch (APS) state of an optical carrier - level 3 concatenated (OC3C) facility be set to a higher priority state.

If no higher priority state than a forced switch (FS) exists on an OC3C, FS away from side 1 of an OC3C will result in a transfer of the working channel from working side 1 to protect side 0. FS away from side 0 of an OC3C will result in a transfer of the working channel from side 0 to side 1.

Manual switch (MS) is similar to FS, except MS is a lower priority request than FS.

Setting an OC3C to LP switches away from side 0 and locks it from being used until the lockout is cleared.

WARNING: Switching away from an OC3C side will generate transient errors on the facilities.

When an OC3C side is made unavailable by an FS, LP, or RMV, the OC3C is reduced to a simplex configuration. Leaving a side unavailable may adversely impact service, such as loss of calls, if a failure occurs on the active side.

Switch maintenance activities that cause an OC3C to be removed from service will override any transmission configuration established by this command.

2. FORMAT

```
SET:OC3C=a-b-c-d-e,f;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`f` = State. Valid value(s):
- `MS` = Manual switch.
- `FS` = Forced switch.
- `LP` = Lockout of protection.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the SET:OC3C output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:OC3C
RST:OC3C
STP:OC3C
```

Output Message(s):

```
SET:OC3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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SET:PB

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the position busy (PB) indicator of certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test line calls be set. When this indicator is set, incoming calls will not terminate at this TLWS talk and monitor phone.

When the message is entered for a local TLWS, the talk and monitor phone (at the TLWS) will be "made busy" to 101 test line calls. When this message is entered for a remote TLWS or CTTU, incoming 101 test line calls will not be routed to the talk and monitor phone at that location.

Note: The talk and monitor phone may still be used for other types of testing at the trunk and line work station while the PB indicator is set.

2. FORMAT

```
SET:PB[,ID=a];
```

3. EXPLANATION OF MESSAGE

`a` = ID of the TLWS or CTTU to be set to position busy. Valid value(s) 1-33 and:

- `l` = Local.
- `r` = Remote.
- `c` = CTTU.

If no ID is specified, all LOCAL positions are set to busy.

4. SYSTEM RESPONSE

`NA` = Not available. The request has not been acknowledged. It is probable the request has been lost.

`PF` = Printout follows. The request has been accepted. Followed by the SET:PB output message verifying the results of the input message.

`RL` = Retry later. The request has been denied due to system overload.

5. REFERENCES

Input Message(s):

`CLR:PB`

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```
OP:PB
```

Output Message(s):

```
SET:PB
OP:PB
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-600-750 *Switch Output Message TLWS Progress and Error Reports Appendix*

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
14.0 (VERIFY 101 TEST LINE)

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SET:PERPH-SM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the verbose status in a single switching module (SM) or a range of SMs be set.

When the verbose status is SET, peripheral fault recovery (PFR) will output transient peripheral (PERPH) error messages which indicate that no recovery action has occurred (for example ANALYSIS ONLY"). When the verbose status is CLEAR, PFR will only output messages which indicate that a peripheral error has caused recovery actions on a circuit. Output messages may be logged or printed, depending on the message class for each unit type. A REPT [unit] TROUBLE message could appear for any circuit.

2. FORMAT

```
SET:PERPH,SM=a[&&b],VERBOSE ;
```

3. EXPLANATION OF MESSAGE

`a` = SM number, or lower limit of range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit of range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO SM RANGE PROVIDED` = Request has been denied, SM(s) must be specified.
- `SM DOES NOT EXIST` = Request has been denied, SM number does not match any equipped SM.

`OK` = Good. The input message has been completed.

`RL` = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

```
CLR:PERPH-SM
OP:LPS
```

Input Appendix(es):

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APP:RANGES

Copyright ©2007 Lucent Technologies

SET:PSALNK

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) be set to a higher priority state.

For Format 1, if no higher priority state than forced switch (FS) exists on a channel of a duplex ATM link, setting FS on that channel will result in a ATM link switch switching away from that channel and making that channel unavailable.

Lock out of protection (LP) only applies to the protection channel of a duplex ATM link. Setting an ATM link to LP will result in an ATM link switch switching away from the protection channel and making the protection channel unavailable.

WARNING: When a ATM link channel is made unavailable by the manual FS or LP, the ATM link is reduced to a simplex link. Leaving a channel UNAV may adversely impact service if failure occurs on the other channel, that is signal fail (SF).

2. FORMAT

```
[1]    SET:PSALNK=a-b-c,CH=d,FS;
       ____________________________________________________________

[2]    SET:PSALNK=a-b-c,LP;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`FS` = Forced switch. Set the specified channel number to FS.

`LP` = Lock out of protection. Set protection channel to LP.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Channel number of the link. This field is not required if type of operation of LP is entered.

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4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

PF = Printout follows. Followed by the SET:PSALNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

CLR:PSALNK
SW:PSALNK

Output Message(s):

SET:PSALNK

Input Appendix(es):

APP:RANGES
APP:SYS-RESPONSE

MCC Display Page(s):
1187,y,x PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)

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SET:PSLNK-A

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) link (PSLNK) be set to a higher priority state.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

If no higher priority state than forced switch (FS) exists on a channel of a duplex PSU link, setting FS (with any input message line in [1] to [3] in the FORMAT section) on that channel will result in a PSU link switch switching away from that channel and making that channel unavailable.

Lock out of protection (LP) only applies to the protection channel of a duplex PSU link. Setting a PSU link to LP (with any input message line in [4] to [6]) will result in a PSU link switch switching away from the protection channel and making the protection channel unavailable.

NOTE: For gateway protocol handlers (PH) the only valid input message formats are #4 and #8. Other formats will not yield the expected results.

WARNING: When a PSU link channel is made unavailable (UNAV) by the manual FS or LP, the PSU link is reduced to a simplex link. Leaving a channel UNAV may adversely impact service if failure occurs on the other channel, that is signal fail (SF).

2. FORMAT

```
[1]    SET:PSLNK=a-b,CH=d,FS;

[2]    SET:PSLNK,PSUCA=a,FARCA=b,CH=d,FS;

[3]    SET:PSLNK,PSU=c-0,FARCA=b,CH=d,FS;

[4]    SET:PSLNK,PSUCA=a,FS;

[5]    SET:PSLNK=a-b,LP;

[6]    SET:PSLNK,PSUCA=a,FARCA=b,LP;

[7]    SET:PSLNK,PSU=c-0,FARCA=b,LP;

[8]    SET:PSLNK,PSUCA=a,LP;
```

3. EXPLANATION OF MESSAGE

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a = Near end PSU community address of the PSU link.

b = Far end PSU community address of the PSU link.

Note: The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint configuration network.

c = Switching module (SM) number.

d = Channel number of the PSU link.

Note: This field is not required if type of operation of LP is entered.

FS = Forced switch. Set the specified channel number to FS.

LP = Lock out of protection. Set protection channel to LP.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the SET:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
CLR:PSLNK
SW:PSLNK
```

Output Message(s):

```
SET:PSLNK
```

MCC Display Page(s):

PSU LINKS STATUS

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SET:PSLNK-B

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) link (PSLNK) be set to a higher priority state.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

If no higher priority state than forced switch (FS) exists on a channel of a duplex PSU link, setting FS (Formats 1-3) on that channel will result in a PSU link switch switching away from that channel and making that channel unavailable.

Lock out of protection (LP) only applies to the protection channel of a duplex PSU link. Setting a PSU link to LP (Formats 4-6) will result in a PSU link switch switching away from the protection channel and making the protection channel unavailable.

WARNING: When a PSU link channel is made unavailable by the manual FS or LP, the PSU link is reduced to a simplex link. Leaving a channel UNAV may adversely impact service if failure occurs on the other channel, that is signal fail (SF).

2. FORMAT

```
[1]    SET:PSLNK=a-b,CH=e,FS;
       _____________________________________________________________

[2]    SET:PSLNK,PSUCA=a,FARCA=b,CH=e,FS;
       _____________________________________________________________

[3]    SET:PSLNK,PSU=c-d,FARCA=b,CH=e,FS;
       _____________________________________________________________

[5]    SET:PSLNK=a-b,LP;
       _____________________________________________________________

[6]    SET:PSLNK,PSUCA=a,FARCA=b,LP;
       _____________________________________________________________

[7]    SET:PSLNK,PSU=c-d,FARCA=b,LP;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

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`FS` = Forced switch. Set the specified channel number to FS.

`LP` = Lock out of protection. Set protection channel to LP.

`a` = Near end PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Far end PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint configuration network.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel number of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

This field is not required if type of operation of LP is entered.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of the Input Messages manual.

`PF` = Printout follows. Followed by the SET:PSLNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
CLR:PSLNK
SW:PSLNK
```

Output Message(s):

```
SET:PSLNK
```

Input Appendix(es):

```
APP:RANGES
APP:SYS-RESPONSE
```

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MCC Display Page(s):
1187,y PSU LINKS STATUS (where y=PSU number)

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SET:PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified side of the Packet Switch Unit (PSUCOM) be forced to the active state.

WARNING: Use of this message may result in a switch of the PSUCOM. If the requested PSUCOM is faulty, fault recovery may cause an SM initialization.

This command forces the requested PSUCOM service group active. The command is only valid if the requested PSU is marked a Critical PSU in Recent Change.

2. FORMAT

```
SET:PSUCOM=a-b-c,FRC;
```

3. EXPLANATION OF MESSAGE

`a` = Switching Module(SM) number.

`b` = PSUCOM unit number (0).

`c` = Service group number (0 or 1).

`FRC` = Forced Active state.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- FORCE NOT ALLOWED ON NON-CRITICAL PSU` = The requested PSU is not marked a Critical PSU in Recent Change.

`PF` = Printout follows. Followed by the SET:PSUCOM output message.

5. REFERENCES

Output Message(s):

`SET:PSUCOM`

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SET:PSUCOM-B

Software Release: 5E16(1) - 5E17(1)
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified side of the packet switch unit (PSUCOM) be forced to the active state.

WARNING: Use of this message may result in a switch of the PSUCOM. If the requested PSUCOM is faulty, fault recovery may cause an SM initialization.

2. FORMAT

```
SET:PSUCOM=a-b-c,FRC;
```

3. EXPLANATION OF MESSAGE

This command forces the requested PSUCOM service group active. The command is only valid if the requested PSU is marked a critical PSU in recent change.

`a` = Switching module (SM) number.

`b` = PSU number.

`c` = Service group number (0 or 1).

`FRC` = Forced active state.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- FORCE NOT ALLOWED ON NON-CRITICAL PSU` = The requested PSU is not marked a critical PSU in recent change.

`PF` = Printout follows. The SET:PSUCOM output message follows.

5. REFERENCES

Output Message(s):

`SET:PSUCOM`

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SET:PSUCOM-C

Software Release: 5E18(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified side of the packet switch unit (PSUCOM) be forced to the active state.

WARNING: Use of this message may result in a switch of the PSUCOM. If the requested PSUCOM is faulty, fault recovery may cause an SM initialization.

2. FORMAT

```
SET:PSUCOM=a-b-c,FRC;
```

3. EXPLANATION OF MESSAGE

NOTE: This command forces the requested PSUCOM service group active. The command is only valid if the requested PSU is marked a critical PSU in recent change.

`a` = Switching module (SM) number.

`b` = PSU number.

`c` = Service group number (0 or 1).

`FRC` = Forced active state.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- UNIT DOES NOT EXIST` = The requested unit do not exist or is unequipped.

`PF` = Printout follows. Followed by the SET:PSUCOM output message.

5. REFERENCES

Output Message(s):

`SET:PSUCOM`

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SET:PUPAGE

Software Release: 5E15 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Requests that the software update installation page (BWM installation) or program update maintenance page be entered.

2. FORMAT

```
SET:PUPAGE=HMa;
```

3. EXPLANATION OF MESSAGE

`a` = The page to be set. Valid value(s):

- `95` = Program update maintenance page.
- `96` = BWM installation page.

4. SYSTEM RESPONSE

`OK` = Good. The message was accepted and the most current status information of the page will be displayed, if any.

5. REFERENCES

None.

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SET:RCACCESS

Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

Requests that permissions for recent change (RC) access from a specified terminal (TTY) associated with the 3B processor, a specified login id (LOGIN) from the administrative services module (ASM) be set,an Authority Management Login (AUTHLOGIN), or a Recent Change Security Group (RCSECGRP).

2. FORMAT

```
SET:RCACCESS[,LOGIN="a"][,TTY="b"][,AUTHLOGIN="c"][,RCSECGRP="d"],ACCESS="e";
```

3. EXPLANATION OF MESSAGE

a = Name of a login id assigned on the ASM in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks.

b = Name of a terminal associated with the 3B in the office. Because the terminal names have lower case characters in them, it is necessary to surround each name with a pair of quotation marks. (Refer to Exhibit A).

c = Name of a login assigned through Authority Management in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks. This parameter is associated with a secured feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

d = Name of the Recent Change Security Group in the office. Because the RC security groups may have lower case characters in them, it is necessary to surround each group name with a pair of quotation marks. This parameter is associated with a secured feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

e = A Set of recent change view access permissions. A string containing the classes and views to allow or disallow. A "+" or "-" in the first column of the string will cause the classes or views in the string to be allowed or disallowed. All other permissions that are currently in force are not changed. If no "+" or "-" exists then the permissions are set only for those classes and views in the string and all others are disallowed. Applying a "-" when there were no previous permissions set is an error. If the empty string (i.e. "") is used then all permissions are disallowed and the permission files are removed for the LOGIN(s), TTY(s), and/or AUTHLOGIN(s). RCSEGGRP(s) will only have their permissions set to none when "" is specified. Inclusive ranges for classes and views may be given in the string by placing a dash ("-") between two classes or views. Or a list of classes and/or views may be entered separated by commas (","). This string is limited to 29 characters.

RC Class	RC Ability
1	Lines -- Telephone number (TN) views.
2	Lines -- Originating equipment (OE) number views.
3	Lines -- Multi-line hunt group (MLHG) views.

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4	Lines -- Miscellaneous views.
5	Trunks -- Trunk group number (TGN) member views.
6	Automatic Call Dist. views.
7	Trunks -- Miscellaneous views.
8	Office miscellaneous alarm views.
9	Digit analysis views.
10	Routing charging views.
11	Cutover status views.
12	Business/residence customer service (BRCS) feature definition views.
13	Traffic measurement views.
14	Line & trunk test views.
15	Common network interface (CCS).
16	Packet switching unit (PSU) based signaling system 7 (SS7) views.
17	Communication module (CM) views.
18	Switching module (SM) and *SLC®*96 module views.
19	SM unit views.
20	SM pack subpack views.
21	Operator Services Position System (OSPS) views.
22	Integrated services digital networks (ISDN) equipment.
23	ISDN basic rate interface.
24	Applications processor.
25	Large data movement.
26	OSPS toll and assistance/intermediate switching point (ISP) views.
27	OSPS toll and assistance part II.
28	Global recent change (RC) - lines views.
33	Wireless network controller (WNC) - lines views.

Exhibit A -- TERMINAL IDENTIFICATION FOR USE WITH SET/OP:RCACCESS COMMAND

For:	**Enter:**	**For:**	**Enter:**
MCC	ttya	TTY=26	ttyA
(MTTY=0/MTTY=1)	TTY=27	ttyB	(note: ttyb is not used)
TTY=28	ttyC	TTY=2	ttyc
TTY=29	ttyD	TTY=3	ttyd
TTY=30	ttyE	TTY=4	ttye
TTY=31	ttyF	TTY=5	ttyf
TTY=32	ttyG	TTY=6	ttyg
TTY=33	ttyH	TTY=7	ttyh
TTY=34	ttyI	TTY=8	ttyi
TTY=35	ttyJ	TTY=9	ttyj
TTY=36	ttyK*	TTY=10	ttyk
TTY=37	ttyL*	TTY=11	ttyl
TTY=38	ttyM*	TTY=12	ttym
TTY=39	ttyN*	TTY=13	ttyn
TTY=40	ttyO*	TTY=14	ttyo
TTY=41	ttyP*	TTY=15	ttyp
TTY=42	ttyQ*	TTY=16	ttyq
TTY=43	ttyR*	TTY=17	ttyr
TTY=44	ttyS*	TTY=18	ttys
TTY=45	ttyT	TTY=19	ttyt
TTY=46	ttyU	TTY=20	ttyu
TTY=47	ttyV	TTY=21	ttyv
TTY=48	ttyW	TTY=22	ttyw
TTY=49	ttyX	SCC ternary	ttyx
TTY=50	ttyY	SCC secondary	ttyy
TTY=51	ttyZ	SCC primary	ttyz

Example: To give all RC abilities to terminal tty26, enter variable 'b' as ttyA and variable 'e' as "1-28,33". To allow only trunk-miscellaneous changes from terminal tty3, enter variable 'b' as ttyd and variable 'e' as "7".

Note: This input message is executable only on the Master Control Center (MCC).

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4. SYSTEM RESPONSE

NG = No good. Invalid terminal designation.

PF = Printout follows. The request has been received. A printout and a response message will follow.

5. REFERENCES

Input Message(s):

```
OP:RCACCESS
```

Output Message(s):

```
SET:RCACCESS
OP:RCACCESS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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SET:RCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote clock (RCLK) circuit be set to a specific mode.

2. FORMAT

```
SET:RCLK=a-b,{NORM|FAST|HOLD};
```

3. EXPLANATION OF MESSAGE

`FAST` = Set to the fast mode of operation. The clock will stay in this mode until it is manually or automatically reconfigured or until the mode is manually set to NORM or HOLD.

`HOLD` = Set the mode to hold last known phase lock.

`NORM` = Set to the normal mode of operation.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the SET:RCLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SET:RCLK`

Input Appendix(es):

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```
APP:RANGES
```

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SET:RCSECGRP

Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

Requests that a specified terminal (TTY) associated with the 3B processor , a specified login id (LOGIN) the administrative services module (ASM), or an Authority Management Login (AUTHLOGIN), be assigned to a Recent Change Security Group (RCSECGRP). This gives the TTY, LOGIN or AUTHLOGIN the same RC access permissions as those assigned to the group. This input message is associated with a secured feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

```
SET:RCSECGRP="a",[,LOGIN="b"][,TTY="c"][,AUTHLOGIN="d"];
```

3. EXPLANATION OF MESSAGE

a = Name of the Recent Change Security Group in the office.

b = Name of a login id assigned on the ASM in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks.

c = Name of a terminal associated with the 3B in the office. Because the terminal names have lower case characters in them, it is necessary to surround each name with a pair of quotation marks. (Refer to Exhibit A).

d = Name of a login assigned through Authority Management in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks.

Exhibit A -- TERMINAL IDENTIFICATION FOR USE WITH SET/OP:RCACCESS COMMAND

For:	Enter:	For:	Enter:
MCC	ttya	TTY=26	ttyA
(MTTY=0/MTTY=1)	TTY=27	ttyB	(note: ttyb is not used)
TTY=28	ttyC	TTY=2	ttyc
TTY=29	ttyD	TTY=3	ttyd
TTY=30	ttyE	TTY=4	ttye
TTY=31	ttyF	TTY=5	ttyf
TTY=32	ttyG	TTY=6	ttyg
TTY=33	ttyH	TTY=7	ttyh
TTY=34	ttyI	TTY=8	ttyi
TTY=35	ttyJ	TTY=9	ttyj
TTY=36	ttyK*	TTY=10	ttyk
TTY=37	ttyL*	TTY=11	ttyl
TTY=38	ttyM*	TTY=12	ttym
TTY=39	ttyN*	TTY=13	ttyn
TTY=40	ttyO*	TTY=14	ttyo
TTY=41	ttyP*	TTY=15	ttyp
TTY=42	ttyQ*	TTY=16	ttyq
TTY=43	ttyR*	TTY=17	ttyr
TTY=44	ttyS*	TTY=18	ttys
TTY=45	ttyT	TTY=19	ttyt
TTY=46	ttyU	TTY=20	ttyu
TTY=47	ttyV	TTY=21	ttyv

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TTY=48	ttyW	TTY=22	ttyw
TTY=49	ttyX	SCC ternary	ttyx
TTY=50	ttyY	SCC secondary	ttyy
TTY=51	ttyZ	SCC primary	ttyz

4. SYSTEM RESPONSE

NG = No good. Invalid terminal designation.

PF = Printout follows. The request has been received. A printout and a response message will follow.

5. REFERENCES

Input Message(s):

```
OP:RCSECGRP
SET:RCACCESS
```

Output Message(s):

```
SET:RCSECGRP
SET:RCACCESS
OP:RCSECGRP
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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SET:REORG

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that the time for reorganization of the database relation to run automatically be set to a specific value. The default is 2:00am.

2. FORMAT

```
SET:REORG,TIME=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Hours (0-23).

`b` = Minutes (0-59).

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted.

5. REFERENCES

Input Message(s):

```
ALW:REORG
EXC:REORG
INH:REORG
```

Output Message(s):

```
REPT:REORG
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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SET:RR-A

Software Release: 5E15 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the manual reroute (RR) trunk group control (TGC) for a single trunk group be set.

Note: For the *AUTOPLEX®* application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
SET:RR,TG=a,DL={ALL|l[,l[,l[,l[,l]]]]},DLTYPE=m[,IRR=n]
[,CODE=b][,CARR=c][,DRPCT=d][,ARPCT=e][,CICR=f][,PRR=g]
[,PIIT=h],VIATO=i[-i[-i[-i[-i[-i]]]]],ALG=j,
VIARR=k[-k[-k[-k[-k[-k]]]]];
```

3. EXPLANATION OF MESSAGE

`ALL` = Reroute trunk group control for all domains in a trunk group. (This option is only valid if variable '`m`'= `INC`.)

`a` = Trunk group number.

`b` = Destination code (1 to 10 digits). (Valid character set 0-9). The string is typically of the form NPANXXX where NPA is the area code, NXX is the office code and X is the first of the last four digits of the number. Any of the leftmost subsets, however, can be entered (such as, the area code, the area code followed by one digit of the office code NPAN, and so forth.).
Note: The code could be a full destination code or any left-most subset thereof.

`c` = The feature group D carrier (0 - 9999).

`d` = Direct route percentage of traffic to control to hard to reach destinations. Valid value(s):

`0`	= No control, but collect measurements (default).
`12PT5`	= 12.5%.
`25`	= 25%.
`37PT5`	= 37.5%.
`50`	= 50%.
`62PT5`	= 62.5%.
`75`	= 75%.
`87PT5`	= 87.5%.
`100`	= 100%, reroute all direct routed traffic.

In addition to the above, any integer between 0 and 100 may also be specified as a direct route percentage.

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`e` = Alternate route percentage of traffic to control. Valid values are the same as for variable '`d`'.

`f` = Cancel in-chain return option. Valid value(s):
`N` = No (default).
`Y` = Yes.

`g` = Previously rerouted option. Reroute calls that have been previously rerouted. Valid value(s):
`N` = No (default).
`Y` = Yes.

`h` = International option. Reroute calls that originated internationally. Valid value(s):
`N` = No (default).
`Y` = Yes.

`i` = Ignore congestion signaling. Allow sprayed reroutes to trunk groups even when congestion signals have been received for those trunk groups. Valid value(s):
`N` = No (default).
`Y` = Yes.

`j` = Hunting algorithm. Valid value(s):
`ORD` = Ordered.
`RGLR` = Regular.
`SPRY` = Spray.

`k` = An ordered list of one to seven trunk group numbers representing the out-of-chain trunk groups.

`l` = Switching domain list.

`m` = Switching domain list type. Valid value(s):
`EXC` = Exclude (control the domain not in the list).
`INC` = Include (control the domains in the list). ALL is only valid with INC.

`n` = Immediate reroute. Valid value(s):
`N` = No (default).
`Y` = Yes.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.
- `FEATURE NOT AVAILABLE` = Due to one or more of the following reasons:
  - The code specific reroute feature is not available.

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PF = Printout follows. Followed by the SET:RR output message.

RL = Retry later. Valid value(s):
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:TGC
OP:TGC
```

Output Message(s):

```
SET:RR
```

Other Manual(s):

235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 (NM EXCEPTION)

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SET:RR-B

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the manual reroute (RR) trunk group control (TGC) for a single trunk group be set. If the immediate reroute (IRR) is set to yes and the VIA trunk group becomes busy the network management controlled call will return to the "in-chain" TG list starting with the controlled TG.

NOTE: For the *AUTOPLEX®* application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
SET:RR,TG=a,DL={ALL|n[,l[,l[,l[,l]]]]},DLTYPE=o[,IRR=p]
[,CODE=b][,CARR=c][,DRPCT=f][,ARPCT=g][,HTRDPCT=d][,HTRAPCT=e]
[,CICR=h][,PRR=i][,PIIT=j],VIATO=k[-k[-k[-k[-k[-k]]]]]
,ALG=l,VIARR=m[-m[-m[-m[-m[-m]]]]];
```

3. EXPLANATION OF MESSAGE

`ALL` = Reroute trunk group control for all domains in a trunk group. (This option is only valid if variable '`o`'= `INC`.)

`a` = Trunk group number.

`b` = Destination code (1 to 10 digits). (Valid character set 0-9). The string is typically of the form NPANXXX where NPA is the area code, NXX is the office code and X is the first of the last four digits of the number. Any of the leftmost subsets, however, can be entered (such as, the area code, the area code followed by one digit of the office code NPAN, and so forth.).

NOTE: The code could be a full destination code or any left-most subset thereof.

`c` = The feature group D carrier (0 - 9999).

`d` = Direct route percentage of traffic to control to hard-to-reach (HTR) destinations. Valid value(s):

`0`	= No control, but collect measurements (default).
`12PT5`	= 12.5%.
`25`	= 25%.
`37PT5`	= 37.5%.
`50`	= 50%.
`62PT5`	= 62.5%.
`75`	= 75%.
`87PT5`	= 87.5%.
`100`	= 100%, reroute all traffic.

In addition to the above, any integer between 0 and 100 may also be specified as a route

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percentage.

e = Alternate route percentage of traffic to control to HTR destinations. Valid values are the same as for variable 'd'.

f = Direct route percentage of non-HTR traffic to control. Valid values are the same as for variable 'd'.

g = Alternate route percentage of non-HTR traffic to control. Valid values are the same as for variable 'd'.

h = Cancel in-chain return option. Valid value(s):
N = No (default).
Y = Yes.

i = Previously rerouted option. Reroute calls that have been previously rerouted. Valid value(s):
N = No (default).
Y = Yes.

j = International option. Reroute calls that originated internationally. Valid value(s):
N = No (default).
Y = Yes.

k = Ignore congestion signaling. Allow sprayed reroutes to trunk groups even when congestion signals have been received for those trunk groups. Valid value(s):
N = No (default).
Y = Yes.

l = Hunting algorithm. Valid value(s):
ORD = Ordered.
RGLR = Regular.
SPRY = Spray.

m = An ordered list of one to seven trunk group numbers representing the out-of-chain trunk groups.

n = Switching domain list.

o = Switching domain list type. Valid value(s):
EXC = Exclude (control the domain not in the list).
INC = Include (control the domains in the list). ALL is only valid with INC.

p = Immediate reroute. Valid value(s):
N = No (default).
Y = Yes.

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4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
- FEATURE NOT AVAILABLE = Due to one or more of the following reasons:

  - The HTR feature is not available.
  - The code specific reroute feature is not available.

PF = Printout follows. Followed by the SET:RR output message.

RL = Retry later. Valid value(s):
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:TGC
OP:HTR
OP:TGC
```

Output Message(s):

```
SET:RR
```

Other Manual(s):
235-190-115 *Local and Toll System Features*
235-190-400 *Feature Descriptions*

MCC Display Page(s):
130 NM EXCEPTION

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SET:RT-FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a far end loop process (FELP) or a protection configuration request (PROT) be set for a particular digital signal level one (DS1) facility (FAC).

2. FORMAT

```
SET:RT,FAC=a-b,{FELP|PROT};
```

3. EXPLANATION OF MESSAGE

FELP	= Configure a DS1 FAC to the looped state at the RT (that is, a "virtual pinjack").
PROT	= Switch from the specified DS1 FAC to the protection line.
a	= Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= Remote terminal (RT) DS1 FAC number Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message is valid but the request conflicts with current status.
PF	= Printout follows. The request was accepted. Followed by the SET:RT-FAC output message.
RL	= Retry later. The request cannot be executed now because the SM is isolated from the administrative module (AM).

5. REFERENCES

Input Message(s):

```
CLR:RT-FAC
INH:RT-FAC
```

Output Message(s):

```
SET:RT-FAC
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)

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SET:RT-FACOFFN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests enabling of the option to update the switching module (SM) status indicator to off-normal when a remote terminal (RT) T1 is in an off-normal state. Specifically, it will be updated to "RT PLS" (RT protection line switch) when a T1 facility goes on protection, or to "CKT OOS" (circuit out-of-service) when a T1 facility goes OOS.

2. FORMAT

```
SET:RT,FACOFFN;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted and the requested action was completed.

`RL` = Retry later. The system failed to read a data base global parameter.

5. REFERENCES

Input Message(s):

```
CLR:RT-FACOFFN
OP:RT-FACOFFN
```

Output Message(s):

```
OP:RT-FAC-OFF
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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SET:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Selects and modifies the observation type(s) for the whole office.

This input message has no affect if the ALW:S7RPT input message has not been entered.

Need to enter at least one of the parameters.

Cannot enter the "ALL" option with any other option.

2. FORMAT

```
SET:S7RPT[,BLOCK=a][,UNBLOCK=b][,RESET=c][,COT=d][,CQ=e][,CVT=f][,ALL=g];
```

3. EXPLANATION OF MESSAGE

`a` = Block status. Valid value(s):
- `n` = Will turn off the blocking messages reporting.
- `y` = Will turn on the blocking messages reporting.

`b` = Unblock status. Valid value(s):
- `n` = Will turn off the unblocking messages reporting.
- `y` = Will turn on the unblocking messages reporting.

`c` = Reset status. Valid value(s):
- `n` = Will turn off the reset messages reporting.
- `y` = Will turn on the reset messages reporting.

`d` = Continuity status. Valid value(s):
- `n` = Will turn off the continuity test (COT) and continuity check request (CCR) messages reporting.
- `y` = Will turn on the continuity test (COT) and continuity check request (CCR) messages reporting.

`e` = Circuit Query status. Valid value(s):
- `n` = Will turn off the circuit query message (CQM) and circuit query response (CQR) message reporting.
- `y` = Will turn on the circuit query message (CQM) and circuit query response (CQR) messages reporting.

`f` = Circuit Validation status. Valid value(s):
- `n` = Will turn off the circuit validation test message (CVT) and circuit validation

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response (CVR) message reporting.

`y` = Will turn on the circuit validation test (CVT) and circuit validation response (CVR) messages reporting.

`g` = All status. Valid value(s):

`n` = Will turn off the blocking, unblocking, reset, cot, cq, and cvt messages reporting.

`y` = Will turn on the blocking, unblocking, reset, cot, cq, and cvt messages reporting.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `FEATURE NOT AVAILABLE` = The input message cannot be used in this office. The office should be upgraded.
- `S7RPT NOT ALLOWED` = The ALW:S7RPT input message must be issued for SET:S7RPT input message to have any affect.
- `HARDWARE NOT OPERATIONAL` = CCS is not available in the office.
- `PARAMETER COMBINATION ERROR` = The input message parameter combination is wrong.

`PF` = Printout follows. Followed by the SET:S7RPT and REPT:S7RPT output messages.

5. REFERENCES

Input Message(s):

```
ALW:S7RPT
INH:S7RPT
EXC:S7rpt
STP:S7RPT
OP:S7RPT
```

Output Message(s):

```
SET:S7RPT
```

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SET:SSTROVRD

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that all service selective trunk reservation (SSTR) per-trunk-group inhibits be overridden.

2. FORMAT

```
SET:SSTROVRD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a SET:SSTROVRD output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

```
OP:SSTR
CLR:SSTROVRD
```

Output Message(s):

```
SET:SSTROVRD
```

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SET:TGC-A

Software Release: 5E15 only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a (SKIP), cancel-to (CANT), cancel-from (CANF), or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).

Note: For the *Autoplex®* application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
SET:TGC,TG=a,CNTL=b[,DRPCT=c][,ARPCT=d][,ANN=e],DL={ALL|f[-f
[-f[-f]]]},DLTYPE=g;
```

3. EXPLANATION OF MESSAGE

`ALL` = Set trunk group control for all domains on a trunk group. (This option is only valid if variable '`g`' = INC.)

`a` = Trunk group number.

`b` = Control type. Valid value(s):

`CANF`	= Manual cancel from control.
`CANT`	= Manual cancel-to control.
`CRO`	= Manual cancel reroute overflow control.
`SKIP`	= Manual skip control.

`c` = Direct route percentage of traffic to control. Valid value(s):

`0`	= No control, but collect measurements (default).
`12PT5`	= 12.5%.
`25`	= 25%.
`37PT5`	= 37.5%.
`50`	= 50%.
`62PT5`	= 62.5%.
`75`	= 75%.
`87PT5`	= 87.5%.
`100`	= 100%, control all direct route traffic.

In addition to the above, any integer between 0 and 100 may also be specified as a direct route percentage.

`d` = Alternate route percentage of traffic to control. Valid value(s):

`0`	= No control but collect measurements (default).
`12PT5`	= 12.5%.

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25	= 25%.
37PT5	= 37.5%.
50	= 50%.
62PT5	= 62.5%.
75	= 75%.
87PT5	= 87.5%.
100	= 100% control all alternate route traffic.

In addition to the above, any integer between 0 and 100 may also be specified as an alternate route percentage.

e = Announcement (ANN) treatment if blocking occurs. Valid value(s):

EANN1	= Emergency announcement 1.
EANN2	= Emergency announcement 2.
NCA	= No circuit announcement.
NODISP	= No announcement.

Note: Default is NODISP. Control types CANT and CANF require an announcement (EANN1, EANN2, or NCA).

f = Switching domain list.

g = Switching domain list type. Valid value(s):

EXC	= Exclude (control domains not in the list).
INC	= Include (control the domains in the list). ALL is only valid with INC option.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):

- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the SET:TGC output message.

RL = Retry later. Valid value(s):

- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR:TGC
OP:M5
OP:TGC
SET:RR

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Output Message(s):

```
SET:TGC
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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SET:TGC-B

Software Release: 5E16(1) only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a skip, cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).

2. FORMAT

```
SET:TGC,TG=a,CNTL=b[,DRPCT=c][,ARPCT=d][,ANN=e],DL={ALL|f[-f. . .
. . .[-f[-f]]]},DLTYPE=g;
```

3. EXPLANATION OF MESSAGE

`ALL` = Set trunk group control for all domains on a trunk group. (This option is only valid if variable '`g`' = INC.)

`a` = Trunk group number.

`b` = Control type. Valid value(s):

`CANF`	= Manual cancel from control.
`CANT`	= Manual cancel-to control.
`CRO`	= Manual cancel reroute overflow control.
`SKIP`	= Manual skip control.

`c` = Direct route percentage of traffic to control. Valid value(s):

`0`	= No control, but collect measurements (default).
`12PT5`	= 12.5%.
`25`	= 25%.
`37PT5`	= 37.5%.
`50`	= 50%.
`62PT5`	= 62.5%.
`75`	= 75%.
`87PT5`	= 87.5%.
`100`	= 100%, control all direct route traffic.

In addition to the above, any integer between 0 and 100 may also be specified as a direct route percentage.

`d` = Alternate route percentage of traffic to control. Valid value(s):

`0`	= No control but collect measurements (default).
`12PT5`	= 12.5%.
`25`	= 25%.
`37PT5`	= 37.5%.
`50`	= 50%.

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62PT5 = 62.5%.
75 = 75%.
87PT5 = 87.5%.
100 = 100% control all alternate route traffic.

In addition to the above, any integer between 0 and 100 may also be specified as an alternate route percentage.

e = Announcement (ANN) treatment if blocking occurs. Valid value(s):
EANN1 = Emergency announcement 1.
EANN2 = Emergency announcement 2.
NCA = No circuit announcement.
NODISP = No announcement.

Default is NODISP. Control types CANT and CANF require an announcement (EANN1, EANN2, or NCA).

f = Switching domain list.

g = Switching domain list type. Valid value(s):
EXC = Exclude (control domains not in the list).
INC = Include (control the domains in the list). ALL is only valid with INC option.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the SET:TGC output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR:TGC
OP:M5
OP:TGC
SET:RR

Output Message(s):

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```
SET:TGC
```

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION

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SET:TGC-C

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a skip, cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).

NOTE: For the *AUTOPLEX®* application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
SET:TGC,TG=a,CNTL=b
[,DRPCT=c][,ARPCT=d][,HTRDPCT=e][,HTRAPCT=f]
[,ANN=g],DL={ALL|h[-h[-h]]},DLTYPE=i;
```

3. EXPLANATION OF MESSAGE

`ALL` = Set trunk group control for all domains on a trunk group. (This option is only valid if variable '`g`' = INC.)

`a` = Trunk group number.

`b` = Control type. Valid value(s):

`CANF`	= Manual cancel from control.
`CANT`	= Manual cancel-to control.
`CRO`	= Manual cancel reroute overflow control.
`SKIP`	= Manual skip control.

`c` = Direct route percentage of traffic to control to non hard-to-reach (HTR) destinations. Valid value(s):

`0`	= No control (default).
`12PT5`	= 12.5%.
`25`	= 25%.
`37PT5`	= 37.5%.
`50`	= 50%.
`62PT5`	= 62.5%.
`75`	= 75%.
`87PT5`	= 87.5%.
`100`	= 100%, control all traffic.

In addition to the above, any integer between 0 and 100 may also be specified as a route percentage.

`d` = Alternate route percentage of traffic to control to non-HTR destinations. Valid values are the same as variable '`c`'.

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`e` = Direct route percentage of traffic to control to destinations assigned to the HTR list. Valid values are the same as variable '`c`'.

`f` = Alternate route percentage of traffic to control to destinations assigned to the HTR list. Valid values are the same as variable '`c`'.

`g` = Announcement (ANN) treatment if blocking occurs. Valid value(s):

`EANN1` = Emergency announcement 1.
`EANN2` = Emergency announcement 2.
`NCA` = No circuit announcement.
`NODISP` = No announcement.

NOTE: Default is NODISP. Control types CANT and CANF require an announcement (EANN1, EANN2, or NCA).

`h` = Switching domain list.

`i` = Switching domain list type. Valid value(s):

`EXC` = Exclude (control domains not in the list).
`INC` = Include (control the domains in the list). ALL is only valid with INC option.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):

- `INVALID REQUEST` = The request has been denied. This office is not equipped to process the request entered.
- `FEATURE NOT AVAILABLE` = The HTR feature is not available.

`PF` = Printout follows. Followed by the SET:TGC output message.

`RL` = Retry later. Valid value(s):

- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:TGC
OP:HTR
OP:TGC
SET:RR
```

Output Message(s):

```
SET:TGC
```

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Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
130 NM EXCEPTION

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SET:TRACE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the user be allowed to change the contents of the system trace control block, and therefore to change the operational characteristics of trace.

The TRACE process SET:TRACE joins the terminate class associated with TRACE process tdcp.p. This means that the process will be aborted whenever tdcp.p is aborted by its owner which may be either interprocess message switch (IMS) or an application.

Inserts any specified changes into the system trace control block in the administration module (AM). New detail flags are place in both the user-detail-flag structure and the system-detail-flag structure.

The control unit (CU) parameter specifies what TRACE will process. If CU is YES, the AM software will be traced. If CU is NO, it will not trace the AM software. If CU is set to ONLY, the AM software will be traced without tracing the NP software.

The RFMT keyword requests that a new trace format file be read into main memory from disk. This allows a new trace format file to be installed without requiring an interprocess message switch (IMS) level 3 or 4 initialization.

2. FORMAT

```
[1]    SET:TRACE=[({IMEAS[-ITRACE-IOPNS]|ALL}-{h'FFF|0})]
       [CU={YES|NO|ONLY}][,RFMT];

[2]    SET:TRACE=[({IMEAS[-ITRACE-IOPNS]|ALL}-{h'FFF|0})]
       NP={IUN01 1|IUN32 1-IUN32 5-IUN02 2|NONE};

[3]    SET:TRACE=[({IMEAS[-ITRACE-IOPNS]|ALL}-{h'FFF|0})]
       NP=IUN01 1:SLOT={1|(1,2,5)}[:CU={YES|NO|ONLY}];
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request has been received and completed.

5. REFERENCES

Input Message(s):

```
ALW:TRACE
INH:TRACE
```

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```
OP:TRACE
```

Output Message(s):

```
ALW:TRACE
INH:TRACE
OP:TRACE
REPT:TRACE
SET:TRACE
```

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SET:TRAP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a trap be set for CCS7 type messages by entering the specific trap attributes that are to be matched. The trap can be set to start immediately or at a future time.

Traps will be initiated based on the trap attribute information given. A trap identification number is given for each valid SET:TRAP input message entered. This number will allow tracking of the status of the trap entered. Incoming signaling messages meeting the trap criteria given in this input message will be collected at the nodes and sent to the administrative module (AM).

2. FORMAT

```
[1]    SET:TRAP,FILENAME="a";

[2]    SET:TRAP,LNKSET=b[,MTYPE=c][,MODE=p[1]]:[,OPC=d][,MS=e]. . .
       . . .[,DPC=f][,MS=g][,CGT=h][,MS=i][,CGPC=j][,MS=k][,CGSN=l]. . .
       . . .[,MS=m] [,CGGT=n][,MS=o][,CDT=p][,MS=q][,CDPC=r][,MS=s]. . .
       . . .[,CDSN=t][,MS=u][,CDGT=v][,MS=w][,RFR=x][,RC=y][,MS=z]. . .
       . . .[,DMI=N][,OFSTB=a[1]-b[1]] [,MS=c[1]][,RTAD=d[1]]. . .
       . . .[,MS=e[1]]:[,ST=f[1]][,DUR=g[1]-h[1]][,MCNT=i[1]]. . .
       . . .[,MGSZE=j[1]][,RATE=k[1]][,DEST=l[1]][,RTDSP=m[1]]. . .
       . . .[,SAVE|NOSAVE];

[3]    SET:TRAP,LNKR=n[1]-o[1]-n[1]-o[1][,MTYPE=c]. . .
       . . .[,MODE=p[1]]:[,OPC=d][,MS=e][,DPC=f][,MS=g][,CGT=h][,MS=i]. . .
       . . .[,CGPC=j][,MS=k][,CGSN=l][,MS=m][,CGGT=n][,MS=o][,CDT=p]. . .
       . . .[,MS=q][,CDPC=r][,MS=s][,CDSN=t][,MS=u][,CDGT=v][,MS=w]. . .
       . . .[,RFR=x][,RC=y][,MS=z][,DMI=N][,OFSTB=a[1]-b[1]]. . .
       . . .[,MS=c[1]][,RTAD=d[1]][,MS=e[1]]:[,ST=f[1]]. . .
       . . .[,DUR=g[1]-h[1]][,MCNT=i[1]][,MGSZE=j[1]]. . .
       . . .[,RATE=k[1]][,DEST=l[1]][,RTDSP=m[1]][,SAVE|NOSAVE];

[4]    SET:TRAP,LNKLST=n[1]-o[1]-n[1]-o[1][,MTYPE=c]. . .
       . . .[,MODE=p[1]]:[,OPC=d][,MS=e][,DPC=f][,MS=g][,CGT=h][,MS=i]. . .
       . . .[,CGPC=j][,MS=k][,CGSN=l][,MS=m][,CGGT=n][,MS=o][,CDT=p]. . .
       . . .[,MS=q][,CDPC=r][,MS=s][,CDSN=t][,MS=u][,CDGT=v][,MS=w]. . .
       . . .[,RFR=x][,RC=y][,MS=z][,DMI=N][,OFSTB=a[1]-b[1]]. . .
       . . .[,MS=c[1]][,RTAD=d[1]][,MS=e[1]]:[,ST=f[1]]. . .
       . . .[,DUR=g[1]-h[1]][,MCNT=i[1]][,MGSZE=j[1]]. . .
       . . .[,RATE=k[1]][,DEST=l[1]][,RTDSP=m[1]][,SAVE|NOSAVE];

[5]    SET:TRAP,LNKSET=b:,DMI=Y,:[ST=f[1]][,DUR=g[1]-h[1]]. . .
       . . .[,MCNT=i[1]][,RATE=k[1]][,RTDSP=m[1]];
```

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```
[6]    SET:TRAP,LNKLST=n1-o1-n1-o1:,DMI=Y,:[ST=f1]. . .
       . . .[,DUR=g1-h1][,MCNT=i1][,RATE=k1][,RTDSP=m1];

[7]    SET:TRAP,LNKR=n1-o1-n1-o1:,DMI=Y,:[ST=f1]. . .
       . . .[,DUR=g1-h1][,MCNT=i1][,RATE=k1][,RTDSP=m1];
```

3. EXPLANATION OF MESSAGE

DMI = Discard message indicator - 'Y' or 'N'. If 'Y' is given, no other trap attribute parameters can be specified.

NOSAVE = Trapped messages on the disk will not be saved.

RTDSP = Real-time display - 'Y' or 'N'. This indicates whether the trapped messages will be printed in real-time to the default destination (that is, MCRT, ROP, SCCS). The default will be 'N'. If 'Y' is given, the trapped messages will be printed to the default destination as soon as they arrive at the AM.

SAVE = Trapped messages on the disk will be saved.

a = Filename (full pathname using lower case where it applies).

Note: SET:TRAP input messages are to be typed in the file just as they would appear if typed manually on the maintenance terminal (MCRT) (that is, if wrap-around occurs with input messages typed on the MCRT, that input message should be typed in the file with wrap-around occurring). All input messages specified in the file must have a proper terminating character (that is, ";") followed by a newline character. There is a limit of five SET:TRAP input messages that can be included in a file because only five simultaneous traps can be actived at one time.

b = Linkset (1 - 255).

c = System 7 (S7) message type. Valid value(s):

- ALL7 = All System 7 signaling messages.
- BICC7 = System 7 bearer independent call control messages.
- MREG7 = System 7 maintenance regular messages.
- MSPEC7 = System 7 maintenance special messages.
- ISDN7 = System 7 integrated services digital messages.
- SCCP = System 7 signaling connection control point.
- SNM7 = System 7 signaling network management messages.

d = Origination point code (3 bytes).

e = Mask field for OPC (3 bytes).

f = Destination point code (3 bytes).

g = Mask field for DPC (3 bytes).

h = Calling party translation type (1 byte).

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`i` = Mask for calling party translation type (1 byte).

`j` = Calling party point code (3 bytes).

`k` = Mask for calling party point code (3 bytes).

`l` = Calling party sub-system number (1 byte).

`m` = Mask for calling party sub-system number (1 byte).

`n` = Calling party global title (up to 6 bytes).

Note: This attribute is typically the calling party directory number (DN).

`o` = Mask for calling party DN (up to 6 bytes).

`p` = Called party translation type (1 byte).

`q` = Mask for called party translation type (1 byte).

`r` = Called party point code (3 bytes).

`s` = Mask for called party point code (3 bytes).

`t` = Called party sub-system number (1 byte).

`u` = Mask for called party sub-system number (1 byte).

`v` = Called party global title (up to 6 bytes).

Note: This attribute is typically the called party DN.

`w` = Mask for called party DN (up to 6 bytes).

`x` = Reason for return field (1 byte).

`y` = Return code (2 bits).

`z` = Mask for return code (2 bits).

a^1 = Layer 3 offset (in bytes) beginning at 1 byte before the SIO field byte. This value must be a multiple of 2 bytes.

b^1 = Layer 3 bit pattern (4 bytes).

c^1 = Mask for layer 3 bit pattern (4 bytes).

Note: The offset and bit pattern field can be given multiple times when specifying multiple offsets and bit patterns (that is, a^1-b^1,a^1-b^1,).

d^1 = Return address (15 bits).

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`e`[1] = Mask for return address (15 bits).

Note: The numbers in () reflect the actual size for the fields. Byte quantities should be specified when values are entered in hexadecimal. Only a maximum of 5 fields can be specified for c - v.

`f`[1] = Starting time of trap (given in network time [24-hour format] example, 3:00 P.M. is given as 1500). The default is immediate activation of the trap.

`g`[1] = Number of hours in duration of trap (Maximum duration is 168 hours [7 days times 24 hours]).

`h`[1] = Number of minutes for duration of trap. Default duration is five minutes or ten messages, whichever comes first.

`i`[1] = Maximum number of messages to be trapped and saved. The default is 100 messages.

Note: If neither DUR nor MCNT is given, default values will be taken from DEF_MSGCNT (10) and DEF_DUR (5) respectively. If MCNT is given and DUR is not given, MAX_DUR (168) will be taken as the value of the DUR field and the given MCNT value will be checked against an upper-bound of MTRP_CNT (1000) to preserve system integrity. If DUR is given and MCNT is not given, MAX_MSGCNT (100) will be taken as the value of the MCNT field and the given DUR value will be checked against an upper-bound of MTRP_DUR (7 days) to preserve system integrity. If both MCNT and DUR are given, they will be checked against the values in MTRP_CNT (1000) and MTRP_DUR (7 days) to preserve system integrity.

`j`[1] = Message size (that is, maximum number of bytes of a trapped message to be saved). This value must be given in multiples of 4 bytes. If no value is given for message size, the user tunable parameter is MAX MSGSIZE (272 bytes).

`k`[1] = Rate of trapping for matching messages to be collected will be 1 out of the given rate value (that is, if 10 is specified, then 1 out of every 10 messages will be collected). The default taken will be a trapping rate of 1 per 100 (1-100).

`l`[1] = Message class number (0-255). Specifies the output class for output of trap information. The default will be the MCRT, ROP, and SCCS (0-255).

`m`[1] = Yes or no (Y or N).

`n`[1] = Group number.

`o`[1] = Member number.

`p`[1] = Mode for incoming or outgoing trapping. The default is for incoming. Valid value(s):

`IN` = Incoming message type.

`OUT` = Outgoing message type.

Note: Fields requiring a bit pattern value can be specified in either hexadecimal or decimal value

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with the exception of the global title fields. Global title fields can only be entered in hexadecimal.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a SET:TRAP output message.

	Para-meters	ISDN 7	SNM 7	NM6 7	MSPE C7	MREG 7	ECIS 7	DCIS	SCC P	ALL7	ALL6	DS6	NM6	Band 6
1	LNKLST LNKR LNKSET													
2	MODE													
3	MTYPE													
4	SOPC							*		*				
5	OPC	*	*		*	*		*	*	*				
6	DPC	*	*		*	*		*	*	*				
7	CGT								*	*				
8	CGPC								*	*				
9	CGSN								*	*				
10	CGGT								*	*				
11	CDT								*	*				
12	CDPC								*	*				
13	CDSN								*	*				
14	CDGT								*	*				
15	DOM							*		*	*	*		
16	DESA							*		*	*	*		
17	DESB							*		*	*	*		
18	BNM			*			*			*	*		*	*
19	VLN			*			*			*				
20	RFR								*	*				
21	RC							*		*	*	*		
22	DMI													
23	OFSTB	*					*	*	*	*	*	*	*	*
24	RTAD				*	*	*		*		*	*	*	
25	ST													
26	DUR													

27	MCNT													
28	MGSZE													
29	RATE													
30	DEST													
31	RTDSP													
32	SAVE/ NOSAVE													

5. REFERENCES

Input Message(s):

```
ALW:TRAP
INH:TRAP
OP:TRAP
STOP:TRAP
```

Output Message(s):

```
SET:TRAP
```

Other Manual(s):

235-200-115 *CNI Common Channel Signaling*

235-200-116 *Signaling Gateway Common Channel Signaling*

MCC Display Page(s):
118 CNI RING STATUS

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SET:TROVRD

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that all trunk reservation (TR) per-trunk-group inhibits be overridden.

2. FORMAT

```
SET:TROVRD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a SET:TROVRD output message.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
CLR:TROVRD
OP:TR
```

Output Message(s):

```
SET:TROVRD
```

Other Manual(s):
235-190-101 *Business and Residence Modular Features*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)

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SET:WSDGTL

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests setting the trunk and line work station (TLWS) test position (TP) digital testing defaults. The stored defaults are then used when a TST:WSDGTL test is requested and the values are not explicitly set.

2. FORMAT

```
SET:WSDGTL,TP=a[,TERM=b][,BLKSZ=d][,CHAN=e][,TESTEQ=f][,TRUNK];
```

3. EXPLANATION OF MESSAGE

`CHAN` = Channel.

`TERM` = Termination point.

`TESTEQ` = Information pertaining to the test equipment being used in the testing.

`TRUNK` = When present, the SET:WSDGTL defaults are for trunk testing. Otherwise, the testing defaults are for DSL testing (default).

`a` = TLWS TP number.

`b` = Termination point for the loopback. Valid value(s):

- `CUc` = Loopback point is a specified basic rate interface transmission extension (BRITE) channel unit (CU). Only valid on U-DSLs. For *ANSI*® U-DSLs, c = 1 through 6. For AMI U-DSLs, c = 1 through 4.
- `EXT` = Loopback is an external connection to the terminal. The digital bit stream is sent out, and it is the terminal's option to send the bits back in the sent format or in an inverted format.
- `LBK` = Loopback test, for a digital trunk, sends the digital bit stream out to the far end office. The far end office sends the bit stream back in the same format. (digital trunks only)
- `LBKCSU` = Loopback test, for a packet-switching digital trunk, sends the digital bit stream out to the channel service unit (CSU). The CSU sends the bit stream back in the same format. Valid for packet switching trunks only.
- `LBKINV` = Loopback test, for a digital trunk, sends the digital bit stream out to the far end office. The far end office sends the bit stream back in the inverted format. (digital trunks only)
- `LBKOCU` = Loopback test, for a packet-switching digital trunk, sends the digital bit stream out to the office channel unit (OCU). The OCU sends the bit stream back in the same format. Valid for packet switching trunks only.
- `LBKSHT` = Loopback test, for a speech handler trunk, sends the digital bit stream in to the speech handler (SH). The SH sends the bit stream back in the same format. Valid for speech handler trunks only.
- `LT` = Loopback point is a physical loopback in the line card. Default value digital subscriber line. (DSL only)

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MANSINK = Sets a loopback for a loopback test originated by the far end switch. When the far end switch sends a digital bit stream, the switch sends the digital bit stream back in the same format. Note: Block size entered is irrelevant when this termination is used. Valid for packet switching trunks only.

MANSRCE = Loopback test, for a packet-switching digital trunk sends the digital bit stream out to the far end switch. The far end switch sends the digital bit stream back in the same format. Note: the far end switch must manually set the loopback prior to running this test. Valid for packet switching trunks only.

NT1 = Loopback point is a physical loopback at the network termination (NT1). Default value for U-DSL. (U-DSL only)

PH = Loopback point is in the protocol handler. (DSL only)

d = Number of bits in the blocks to be sent (1 - 64000, Default: 56000 for DSLs, 64000 for digital trunks).

e = Channel of the DSL (valid for DSLs only) where. Valid value(s):

ALL = Run the test on all the channels of the DSL.

B1 = Run the test on the B1-channel.

B2 = Run the test on the B2-channel.

D = Run the test on the D-channel.

f = Channel of the DSL for which information pertaining to the test equipment being used in the testing will is. Valid value(s):

B1 = Display the B1-channel test equipment information.

B2 = Display the B2-channel test equipment information.

D = Display the D-channel test equipment information (default).

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK = Good. Digital testing defaults set.

5. REFERENCES

Input Message(s):

```
CLR:WSDGTL
RLS:WSTST
STP:WSTST
TST:WSDGTL
```

Output Appendix(es):

```
APP:TLWS
```

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Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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SET:WSFREQ

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests setting the trunk and line work station (TLWS) test position (TP) frequency and/or level. The stored frequency and level are used when a request for a TST:WSSEND test is performed and no frequency or level are specified or when a TST:WSMEAS test is requested with an associated tone sent simultaneous with the measurement.

This request overwrites the default frequency and level of 1004hz 0db. Use CLR:WSFREQ to reset the test position default frequency and level.

2. FORMAT

```
SET:WSFREQ,TP=a,FREQ=b,{LVP=c|LVN=d};
```

3. EXPLANATION OF MESSAGE

`FREQ` = Frequency in hertz.

`LVN` = Negative level in decibels.

`LVP` = Positive level in decibels.

`a` = TLWS TP number.

`b` = Frequency in hertz (0-4000). The values 1, 2, and 4 are interpreted as a short-hand encoding of the values 1004, 2804, and 404 Hz respectively.

`c` = Level in positive tenths of db of the tone (0-30) (for example, +2.4 db is specified as 24).

`d` = Level in negative tenths of a db of the tone. (for example, -24 db is specified as 240).

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. Frequency and/or level set.

5. REFERENCES

Input Message(s):

```
CLR:WSFREQ
RLS:WSTST
```

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```
STP:WSTST
TST:WSSEND
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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SET:WSOPD

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests to set the digits that are to be used for automatic outpulsing on a trunk associated with the indicated trunk and line work station (TLWS) test position (TP). If a trunk is currently associated with the indicated TP, then the outpulsing will occur with this input message. If no test is occurring, then the digits will be outpulsed whenever a valid test is requested (that is, AC JACK or transmission). A TLWS TP must have already been selected by the seize TP menu input message.

Use the clear outpulse digits menu input message to clear the outpulse digits from the TP memory.

2. FORMAT

```
SET:WSOPD,TP=a,OPD=b[,FRCD][,MINT=c];
```

3. EXPLANATION OF MESSAGE

`FRCD` = Force outpulsing of digits immediately. This option only has significance for direct inward dialing (DID) and integrated digital carrier unit (IDCU) trunks.

`MINT` = Multifarious Intra-Network Trunk.

`a` = TLWS TP number.

`b` = Digits to be outpulsed for trunk tests (a maximum of 15 digits allowed).

`c` = Additional digits for outpulsing over MINT trunks.

4. SYSTEM RESPONSE

Note: If the TLWS talk and monitor (T&M) phone is not busy, it will automatically be brought into the connection.

`IP` = Request in progress.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

```
CLR:WSOPD
CONN:WSTRK
```

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```
SET:WSPOS
```

Output Message(s):

```
SET:WSOPD
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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SET:WSPHONE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the mode of the trunk and line work station (TLWS) talk-and-monitor (T&M) phone connected to the indicated test position (TP) be set.

2. FORMAT

```
SET:WSPHONE,TP=a[,MODE=b][,DN=c];
```

3. EXPLANATION OF MESSAGE

`DN` = Directory number.

`a` = TLWS TP number.

`b` = Mode to set the T&M phone. Valid value(s):

- `MNTR` = The user can only listen.
- `TALK` = The user can talk and listen. This is the default value.
- `TEST` = Phone on hold.
- `OVER` = Changes the phone number of a remote talk and monitor connection. The phone associated with this TP using a TLWSR tuple must already have the T&M phone defined as remote. Refer to the SET:WSPOS input message.

`c` = Directory number to use from this point on when adding a remote talk and monitor (CONN:WSPHONE) phone into the connection.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good.

5. REFERENCES

Input Message(s):

```
CONN:WSPHONE
DISC:WSPHONE
SET:WSPOS
```

Output Appendix(es):

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```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RC/V View(s):

14.3 (TRUNK AND LINE WORK STATION)

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SET:WSPOS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a trunk and line work station (TLWS) test position (TP) and testing resources (ID) to associate with the terminal issuing this input message.

2. FORMAT

```
SET:WSPOS[,TP=a][,ID=b];
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number. This parameter is optional and, if not provided, a search is made to find the lowest unused TP the number of TP that may be acquired concurrently may be modified using the GLTPMAX system parameter and is also affected by the GLTPMAJOR and GLTPMINOR system parameters in overload conditions.

`b` = TLWS identifier (ID) number. Associates a set of testing resources with a TP. The testing resources are specified using a TLWSR tuple in the ODD database. This is specified using RC/V View 14.3 TRUNK ANND LINE WORK STATION. Multiple TPs may use the same identifier. This parameter is optional and, if not provided, a search is made to find the lowest TLWSR tuple whose DEVID field matches the device identifier of the input terminal.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`OK` = Good. TP was acquired.

`PF` = Printout follows. Followed by an OP:WSPOS output message indicating the TP number and the TLWSR tuple number (ID) which were acquired.

`RL` = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Other Manual(s):
235-100-125 *System Description*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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RC/V View(s):

14.3 (TRUNK AND LINE WORK STATION)

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73. SND

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SND:BICCMSG

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Allows the user to send on demand a block or unblock message for bearer independent call control (BICC). This input message will provide this capability with the following side effects:

- If block sending is requested, the far-end office will be prohibited from originating calls until an unblocking, initial address message (IAM), reset circuit (RSC) / group reset (GRS) is sent.
- Block/unblock sending is done without any call instance code (CIC) state change. If block sending is requested, there is no state change done that will prohibit outgoing call selection. If unblock sending is requested, there is no state change done that will allow outgoing call selection.
- There is no immediate indication that the far-end office received the block/unblock message and is indeed remotely blocked.

  Machine-detected interoffice irregularities (MDII) generation would imply the message was not received and/or processed in the far-end office.

  BICC CIC query (BQ) could be used to verify that the far-end office is remotely blocked.
- Previously active block/unblock/reset sending requests are terminated when this command is entered.

  Abnormal acknowledgement processing should be expected, if the previously sent request acknowledges.

Format 1 is used to send on demand a(n) (un)block for an entire BICC group.

Format 2 is used to send on demand a(n) (un)block for one BICC group member or a range of members.

2. FORMAT

```
[1]    SND:BICCMSG,BG=a,MSG=d;

[2]    SND:BICCMSG,BGMN=a-b[&&c],MSG=d;
```

3. EXPLANATION OF MESSAGE

`a` = BICC group number.

`b` = BICC group member number. If a range is used, this will be the lower range value.

`c` = BICC group member number. This is only used with a range and will be the upper range value.

`d` = Message type, either BLOCK or UNBLOCK.

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4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `BG INVALID` = BICC group number not equipped.
- `BGMN INVALID` = BICC group member number not equipped.
- `BG HAS NO ASSOCIATED MEMBERS` = BICC group is equipped but it has no associated member.

`PF` = Printout follows. Followed by the SND:BICCMSG output message.

5. REFERENCES

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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74. ST

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ST:ATTS

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Places a specified ATTS (Automatic Trunk Test Scheduler) test schedule in an operational state to enable the automatic execution of test sessions defined in that schedule. If the specified schedule is in the "SUSPENDED" state at the time this input message is processed, then that schedule will be placed in the state in which it was operating at the time it was interrupted by the prior STP:ATTS input message. If that previous state is the "RUNNING" state, then operation of the test session will resume from the point of interruption.

2. FORMAT

```
ST:ATTS,SCHED=a;
```

3. EXPLANATION OF MESSAGE

`a` = The number of the ATTS test schedule to be started (1 - 20).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the ST:ATTS output message.

5. REFERENCES

Input Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS
```

Output Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS
```

Other Manual(s):

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Where (X) is the release-specific version of the specified manual.

235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-105-210 *Routine Operations and Maintenance*
235-100-125 *System Description*

RC/V View(s):

14.9 (ATTS TEST SESSION SCHEDULE DATA)
14.10 (ATTS TEST SCHEDULE PARAMETER)

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ST:DBPROXY

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Perform maintenance actions on the static office-dependent data (ODD) proxy database. The static ODD proxy database is an in sync copy of the static ODD and is located on the administrative services module (ASM). The static ODD proxy database contains several databases. A database exists for each of the processors [administrative module (AM), switching module(s) (SMs), and communication module processor (CMP)], plus a database for the SM's redundant ODD (RODD). Actions performed on the proxy database can be done on individual databases or on the entire set of databases.

The proxy database will be largely transparent to the user in the sense that all initialization, update, and recovery actions will be handled automatically. However, this command allows manual interaction with the proxy database when needed.

2. FORMAT

```
ST:DBPROXY,ACTION=a[,DB=b[,SM=c][,MAXSIZE=d][,RELNAME=e]];
```

3. EXPLANATION OF MESSAGE

`a` = Action to perform on the proxy database. Valid value(s):

`OFFLINE`	= Brings the proxy database server offline.
`ONLINE`	= Brings the proxy database server online.
`RELCOMPARE`	= Determines if the data in the relation specified in variable 'e' is the same in both the switch ODD and the proxy database.
`RELOADALL`	= Reloads all databases from the switch ODDs.
`RELOAD`	= Reloads the specified database from the switch ODD.
`REMOVEALL`	= Removes all databases from the proxy database.
`REMOVE`	= Removes the specified database from the proxy database.
`RESIZE`	= Changes the maximum size of the specified database to the value specified in variable '`d`'.
`RESTART`	= Restarts the proxy database server.
`SIZEREPORTALL`	= Gives the current and maximum size of all databases.
`SIZEREPORT`	= Gives the current and maximum size of the specified database.
`STATUS`	= Gives the status of the proxy database server.

`b` = Database. Valid value(s):

`AM`	= Administrative module.
`CMP`	= Communications module processor.
`RODD`	= SM redundant ODD.
`SM`	= Switching module.

`c` = SM number. This parameter is only valid when variable '`b`' is equal to SM.

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`d` = New maximum size value for the specified database, in kilobytes. This parameter is only valid when variable '`a`' is equal to RESIZE.

`e` = Relation name. This parameter is only valid when variable '`a`' is equal to RELCOMPARE.

The current status of the proxy database will be printed if the STATUS action is specified. The status information will indicate if the proxy is available, unavailable, or in some form of recovery. The OFFLINE and ONLINE actions are used to take the proxy database offline and bring it back online. Bringing the proxy offline will block any user access to the proxy and disconnect the proxy from any interaction with the switch. The forwarding of updates from the switch will stop and any proxy recovery actions will be stopped in this case. Bringing the proxy back online will cause the proxy to be resynchronized from the switch ODDs and make it available to user access again. If the proxy was offline for an extended period this could involve a full reload of the databases.

The RELOAD action is used to reload the proxy database for a specific processor from its switch ODD. The RELOADALL action is used to reload the entire proxy database from the switch ODDs. These reload actions can also be used to create a proxy for a specific processor if it does not exist. A processor must be operational to be reloaded or created. The REMOVE action is used to remove the proxy database for a specific processor. The REMOVEALL action is used to remove the entire proxy database. The entire proxy database can only be removed if it is offline. The SIZEREPORT action is used to print the current and maximum space allocated to a specific proxy database. The SIZEREPORTALL action is used to print the current and maximum space allocated to all proxy databases. The RESIZE action changes the maximum space allocated to a specific proxy database. When using the resize action the database must be specified and the new maximum size of the database in Kbytes must be specified in variable '`d`'. Note that the current size of the database may also slightly change when the maximum size is changed with the RESIZE action due to allocation of page tables that are included in the database. The RELCOMPARE action determines if the data in the relation specified in variable '`e`' is the same in both the switch ODD and the proxy database. A database must be specified with this action and the relation will only be compared on the specified database. The RESTART action restarts the database servers.

Manual administrative requests that occur while another recovery is in progress are handled as follows. A manual request to take the proxy offline will always be honored and any recoveries in progress will be stopped in this case. Manual requests to bring the proxy online during a recovery will simply return a message indicating a recovery is in progress. Manual RESTART and RELOADALL requests will generally be honored and the requested recovery will be reinitiated even if it is already in progress. The one exception to this rule is that a RESTART will be rejected if a RELOADALL is in progress.

Interactions between full office recovery actions and single processor recovery actions are more complicated and will be handled as follows. If a full office recovery action is in progress, no single processor operations are allowed. If the proxy is online, offline (or recovery failed), or removed, then single processor recovery actions will be allowed. Only one single processor recovery action will be allowed at a time. If a single processor recovery is in progress and a full office recovery is requested, the single processor recovery will be stopped and the full office recovery will proceed. A server restart may escalate into a full recovery in this case.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by ST:DBPROXY output message.

5. REFERENCES

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Output Message(s):

```
ST:DBPROXY
```

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ST:LIB

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Requests that the previously loaded library program be started in the administrative module (AM) and/or switching modules (SMs) specified. If no AM or SM(s) is specified, the AM and all SMs currently running under the specified team will receive the message.

2. FORMAT

```
ST:LIB:TEAM=a[,AM][{,SM=b|,SM=c&&d}];
```

3. EXPLANATION OF MESSAGE

`AM` = Send the message to the library program running in the AM under this team.

`a` = The team number (1-15) to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.

`b` = SMs that this message should be directed to. The team specified must have a library program running in the SM(s) listed. There can be up to five SM numbers listed. A range could be used instead, as indicated. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = First SM in the range '`c`' to '`d`'. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Last SM in the range '`c`' to '`d`'. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If neither the AM or any SMs are specified, the ST:LIB message is sent to the AM and all SMs with clients loaded under the same team as that specified.

4. SYSTEM RESPONSE

`NG` = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

`PF` = Printout follows. Message has been sent to the SMs/AM or team specified.

5. REFERENCES

Input Message(s):

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```
LOAD:LIB
```

Output Message(s):

```
ST:LIB
```

Input Appendix(es):

```
APP:RANGES
```

ST:MODGRW-RSM

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that the relations RT_DNTRAN, RT_SPECRI, RTDN_MHG, and RTDNMPG be populated for new remote switching modules (RSMs). This message is part of switching module growth procedures.

2. FORMAT

```
ST:MODGRW,RSM=a;
```

3. EXPLANATION OF MESSAGE

`a` = RSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Input request is not valid.

`PF` = Printout follows. Request accepted. Followed by an ST:MODGRW-RSM output message.

5. REFERENCES

Output Message(s):

```
ST:MODGRW-RSM
```

Other Manual(s):
235-105-230 *Hardware Change Procedures*

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ST:NIPMP-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

```
ST:NIPMP,ODRID=a,SM=b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

`a` = SM peripheral hardware unit. Valid value(s):

- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.
- `IDCU` = The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `ISLU` = The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.
- `ISLU2` = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.
- `ISTF` = The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
- `LDSF` = The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this

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request if not already pumped.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSU = The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22S = The protocol handler model 22 (PH22) common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22S) and hashsums will also be pumped.

PH22W = The PH22 wireless resident software image (PH22W) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22W) and hashsums will also be pumped.

PH3C = The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.

PHE1 = The set of two protocol handler (PHE1) with SCSI/Ethernet resident software images and hashsums are pumped from AM disk.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

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PHV5C	= The set of two speech handler (PHV5) resident software images and hashsums are pumped from the AM disk. This includes the PHV5C and V5DSPCDMA images and hashsums.
PI	= The packet interface (PI) resident software image and hashsum are pumped from AM disk.
PI2	= The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.
RAF	= The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
SAS	= The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.
V4DSPEVRC1	= The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.
V4DSP13K	= The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.
V4DSPACELP	= The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.
V4DSPISLP	= The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.
V4DSPVSELP	= The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.
V5DSPCDMA	= The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.
V5DSPISLP	= The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.
V5DSPTDMA	= The consolidated TDMA QCELP (which include ACELP and VSELP) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request not initiated due to bad syntax or invalid SM specified.

PF = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

STP:NIPMP

Output Message(s):

```
REPT:NIPMP
```

Input Appendix(es):

```
APP:RANGES
```

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ST:NIPMP-B

Software Release: 5E16(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

```
ST:NIPMP,ODRID=a,SM=b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer is not valid for this command, however it is listed as an available input because of commonality with CFR:SPRMEM. This buffer is not pumpable and should not be used as input to this command.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.
- `IDCU` = The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `ISLU` = The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.
- `ISLU2` = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.
- `ISTF` = The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

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LDSF	= The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSF2	= The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSU	= The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
OIU24	= The 24-channel optical interface unit (OIU) resident software image and hashsum are pumped from AM disk.
PH2	= The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.
PH22I	= The protocol handler model 22 (PH22) ISDN-Wireless resident software image (PH22I) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.
PH22S	= The PH22 common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.
PH31S	= The protocol handler 31 for high speed signaling links image and hashsums are pumped from AM disk.
PH3C	= The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.
PH3S	= The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.
PH4ACC	= The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.
PH4GWY	= The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.
PH4IFR	= The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.
PH4PP	= The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.
PHA1	= The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.
PHA2A	= The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are pumped from AM disk.
PHE1	= The set of two protocol handler with SCSI/ethernet version 1 (PHE1) resident software images and hashsums are pumped from AM disk.

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PHE2E = The protocol handler with SCSI/ethernet version 2 (PHE2) resident software images and hashsums are pumped from AM disk.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are pumped from AM disk.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request not initiated due to bad syntax or invalid SM specified.

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PF = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

STP:NIPMP

Output Message(s):

REPT:NIPMP

Input Appendix(es):

APP:RANGES

ST:NIPMP-C

Software Release: 5E16(2) - 5E17(1)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

```
ST:NIPMP,ODRID=a,SM=b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer is not valid for this command, however it is listed as an available input because of commonality with CFR:SPRMEM. This buffer is not pumpable and should not be used as input to this command.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.
- `GDSF2` = The global digital services function 2 (GDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
- `IDCU` = The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
- `ISLU` = The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.
- `ISLU2` = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.

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ISTF	= The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSF	= The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSF2	= The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSU	= The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
OIU24	= The 24-channel optical interface unit (OIU) resident software image and hashsum are pumped from AM disk.
OIUATM	= The asynchronous transfer mode (ATM) OIU resident software image and hashsum are pumped from AM disk.
OIUIP	= The internet protocol (IP) OIU resident software image and hashsum are pumped from AM disk.
PH2	= The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.
PH22I	= The protocol handler model 22 (PH22) ISDN-Wireless resident software image (PH22I) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.
PH22S	= The PH22 common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.
PH31S	= The protocol handler 31 for high speed signaling links image and hashsums are pumped from AM disk.
PH3C	= The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.
PH3S	= The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.
PH4ACC	= The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.
PH4GWY	= The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.
PH4IFR	= The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.
PH4PP	= The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and

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hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are pumped from AM disk.

PHE1 = The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are pumped from AM disk.

PHE2E = The protocol handler (PHE2) with SCSI/ethernet version 2 resident software images and hashsums are pumped from AM disk.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are pumped from AM disk.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

V5DSPSME13 = The consolidated SMV, EVRC and 13K DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

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`b` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request not initiated due to bad syntax or invalid SM specified.

`PF` = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

`STP:NIPMP`

Output Message(s):

`REPT:NIPMP`

Input Appendix(es):

`APP:RANGES`

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ST:NIPMP-D

Software Release: 5E18(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

```
ST:NIPMP,ODRID=a,SM=b[,UCL][,CTS|FPUMP];
```

3. EXPLANATION OF MESSAGE

`CTS` = Use control time slot (CTS) pump to pump the peripheral images. This option is recommended only when the hardware required for the fast pump is out of service.

`FPUMP` = Use fast pump hardware to pump the peripheral images. This option is much faster than the CTS option, and is the default.

`UCL` = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer is not valid for this input message, however it is listed as an available input because of commonality with CFR:SPRMEM. This buffer is not pumpable and should not be used as input to this input message.
- `CSCPSAS` = The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the CSCPSAS and CSCPDG images and hashsums.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.

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GDSF2	= The global digital services function 2 (GDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
IDCU	= The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
ISLU	= The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.
ISLU2	= The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.
ISTF	= The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSF	= The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSF2	= The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSU	= The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
OIU24	= The 24-channel optical interface unit (OIU) resident software image and hashsum are pumped from AM disk.
OIUATM	= The asynchronous transfer mode (ATM) OIU resident software image and hashsum are pumped from AM disk.
OIUIP	= The internet protocol (IP) OIU resident software image and hashsum are pumped from AM disk.
PH2	= The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.
PH22I	= The protocol handler model 22 (PH22) ISDN-Wireless resident software image (PH22I) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.
PH22S	= The PH22 common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.
PH31S	= The protocol handler 31 for high speed signaling links image and hashsums are pumped from AM disk.
PH3C	= The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.
PH3S	= The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.
PH4ACC	= The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the

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PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are pumped from AM disk.

PHE1 = The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are pumped from AM disk.

PHE2E = The protocol handler (PHE2) with SCSI/ethernet version 2 resident software images and hashsums are pumped from AM disk.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are allocated. This includes the PHV6C and V6DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are pumped from AM disk.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.

PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown: lw(1i) | lw(2i). Image Name: Description: = CF3FW T{ CF3 Firmware image T} _ CF3HW T{ CF3 Hardware image T} _ PF3FW T{ PF3 Firmware image T} _ PF3HW T{ PF3 Hardware image T}

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This

includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

V6DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV6 speech handlers.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request not initiated due to bad syntax or invalid SM specified.

PF = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

STP:NIPMP

Output Message(s):

REPT:NIPMP

Input Appendix(es):

APP:RANGES

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ST:NIPMP-E

Software Release: 5E19(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

```
ST:NIPMP,ODRID=a,SM=b[,UCL][,CTS|FPUMP];
```

3. EXPLANATION OF MESSAGE

`CTS` = Use control time slot (CTS) pump to pump the peripheral images. This option is recommended only when the hardware required for the fast pump is out of service.

`FPUMP` = Use fast pump hardware to pump the peripheral images. This option is much faster than the CTS option, and is the default.

`UCL` = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer is not valid for this input message, however it is listed as an available input because of commonality with CFR:SPRMEM. This buffer is not pumpable and should not be used as input to this input message.
- `CSCPSAS` = The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the CSCPSAS and CSCPDG images and hashsums.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.

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GDSF2	= The global digital services function 2 (GDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
IDCU	= The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
ISLU	= The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.
ISLU2	= The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.
ISTF	= The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSF	= The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSF2	= The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
LDSU	= The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
OIU24	= The 24-channel optical interface unit (OIU) resident software image and hashsum are pumped from AM disk.
OIUATM	= The asynchronous transfer mode (ATM) OIU resident software image and hashsum are pumped from AM disk.
OIUIP	= The internet protocol (IP) OIU resident software image and hashsum are pumped from AM disk.
PH2	= The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.
PH22I	= The protocol handler model 22 (PH22) ISDN-Wireless resident software image (PH22I) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.
PH22S	= The PH22 common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.
PH31S	= The protocol handler 31 for high speed signaling links image and hashsums are pumped from AM disk.
PH3C	= The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.
PH3S	= The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.
PH4ACC	= The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the

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PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are pumped from AM disk.

PHE1 = The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are pumped from AM disk.

PHE2E = The protocol handler with SCSI/ethernet version 2 (PHE2) resident software images and hashsums are pumped from AM disk.

PHE3B = The protocol handler with ethernet version 3 (PHE3) resident software image and hashsums are pumped from AM disk.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are allocated. This includes the PHV6C and V6DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are pumped from AM disk.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.

PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown: lw(1i) | lw(2i). Image Name: Description: = CF3FW T{ CF3 Firmware image T} _ CF3HW T{ CF3 Hardware image T} _ PF3FW T{ PF3 Firmware image T} _ PF3HW T{ PF3 Hardware image T}

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

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SAS	= The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.
V4DSPEVRC1	= The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.
V4DSP13K	= The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.
V4DSPACELP	= The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.
V4DSPISLP	= The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.
V4DSPVSELP	= The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.
V5DSPCDMA	= The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.
V5DSPISLP	= The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.
V6DSPCDMA	= The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV6 speech handlers.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request not initiated due to bad syntax or invalid SM specified.

PF = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

STP:NIPMP

Output Message(s):

REPT:NIPMP

Input Appendix(es):

APP:RANGES

ST:NIPMP-F

Software Release: 5E20(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

```
ST:NIPMP,ODRID=a,SM=b[,UCL][,CTS|FPUMP];
```

3. EXPLANATION OF MESSAGE

`CTS` = Use control time slot (CTS) pump to pump the peripheral images. This option is recommended only when the hardware required for the fast pump is out of service.

`FPUMP` = Use fast pump hardware to pump the peripheral images. This option is much faster than the CTS option, and is the default.

`UCL` = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer is not valid for this input message, however it is listed as an available input because of commonality with CFR:SPRMEM. This buffer is not pumpable and should not be used as input to this input message.
- `CSCPSAS` = The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the CSCPSAS and CSCPDG images and hashsums.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.

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GDSF2 = The global digital services function 2 (GDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

IDCU = The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.

IPS = The set of CF4/PF4/PF3I resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 CF4, 1 PF4 and 2 PF3I images as shown:

Image Name:	Description:
CF4FW	CF4 Firmware image
CF4HW	CF4 Hardware image
PF4FW	PF4 Firmware image
PF3IFW	PF3I Firmware image
PF3IHW	PF3I Hardware image

ISLU = The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.

ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.

ISTF = The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSF = The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSU = The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are pumped from AM disk.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are pumped from AM disk.

OIUIP = The internet protocol (IP) OIU resident software image and hashsum are pumped from AM disk.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-Wireless resident software image (PH22I) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

PH22S = The PH22 common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

PH31S = The protocol handler 31 for high speed signaling links image and hashsums

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are pumped from AM disk.

PH33Q = The protocol handler 33 for generalized QLPS protocol handler image and hashsums are pumped from AM disk.

PH3C = The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.

PHA2A = The protocol handler for ATM version 2 (PHA2) resident software image and hashsum are pumped from AM disk.

PHE1 = The set of two protocol handler with SCSI/ethernet (PHE1) resident software images and hashsums are pumped from AM disk.

PHE2E = The protocol handler with SCSI/ethernet version 2 (PHE2) resident software images and hashsums are pumped from AM disk.

PHE2S = The PHE2 and session initiation protocol for telephony (SIP-T) (PHE2S) resident software images and hashsums are pumped from AM disk.

PHE3B = The protocol handler with ethernet version 3 (PHE3) resident software image and hashsums are pumped from AM disk. This image provides bearer interface to the cell site backhaul IP network.

PHE3N = PHE3 resident software image and hashsums are pumped from AM disk. This image provides bearer interface to the IP Core network.

PHE4I = The protocol handler with ethernet version 4 (PHE4) resident software image and hashsums are pumped from AM disk. This image supports inter PSU traffic over an IP network.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and

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hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are allocated. This includes the PHV6C and V6DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are pumped from AM disk.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.

PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown:

Image Name:	Description:
CF3FW	CF3 Firmware image
CF3HW	CF3 Hardware image
PF3FW	PF3 Firmware image
PF3HW	PF3 Hardware image

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V5DEVRCB = The consolidated EVRC and EVRC-B DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

V6DCKTVOC = The CKTVOC DSP image and hashsums are pumped from AM disk for use with the PHV6 circuit vocoder.

V6DEVRCB = The consolidated EVRC and EVRC-B DSP software image and hashsum are allocated, for use with the PHV6 speech handlers.

V6DPKTVOC = The PKTVOC DSP image and hashsums are pumped from AM disk for use with the PHV6 packet vocoder.

V6DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use

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with the PHV6 speech handlers.

`b` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request not initiated due to bad syntax or invalid SM specified.

`PF` = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

`STP:NIPMP`

Output Message(s):

`REPT:NIPMP`

Input Appendix(es):

`APP:RANGES`

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ST:NIPMP-G

Software Release: 5E21(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

```
ST:NIPMP,ODRID=a,SM=b[,UCL][,CTS|FPUMP];
```

3. EXPLANATION OF MESSAGE

`CTS` = Use control time slot (CTS) pump to pump the peripheral images. This option is recommended only when the hardware required for the fast pump is out of service.

`FPUMP` = Use fast pump hardware to pump the peripheral images. This option is much faster than the CTS option, and is the default.

`UCL` = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

`a` = SM peripheral hardware unit. Valid value(s):

- `CFCBUF` = The configuration control buffer is not valid for this input message, however it is listed as an available input because of commonality with CFR:SPRMEM. This buffer is not pumpable and should not be used as input to this input message.
- `CSCPSAS` = The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are pumped from the AM disk. This includes the CSCPSAS and CSCPDG images and hashsums.
- `DNUS` = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from the AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.
- `DSP13K` = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPACELP` = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPEVRC` = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `DSPVSELP` = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
- `GDSF` = The global digital services function (GDSF) resident operational software image and hashsum are pumped from the AM disk.

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GDSF2 = The global digital services function 2 (GDSF2) resident operational software image and hashsum are pumped from the AM disk. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

IDCU = The set of three IDCU resident software images and hashsums are pumped from the AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.

IPS = The set of CF4/PF4/PF3I resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 CF4, 1 PF4 and 2 PF3I images as shown:

Image Name:	Description:
CF4FW	CF4 Firmware image
CF4HW	CF4 Hardware image
PF4FW	PF4 Firmware image
PF3IFW	PF3I Firmware image
PF3IHW	PF3I Hardware image

ISLU = The integrated services line unit (ISLU) resident software image and hashsum are pumped from the AM disk.

ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from the AM disk.

ISTF = The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from the AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from the AM disk in conjunction with this request if not already pumped.

LDSF = The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from the AM disk. The DSC3 diagnostic software image and hashsum are pumped from the AM disk in conjunction with this request if not already pumped.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from the AM disk. The DSC4 diagnostic software image and hashsum are pumped from the AM disk in conjunction with this request if not already pumped.

LDSU = The LDSU resident operational software image and hashsum are pumped from the AM disk. The HDSU diagnostic software image and hashsum are pumped from the AM disk in conjunction with this request if not already pumped.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are pumped from the AM disk.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are pumped from the AM disk.

OIUIP = The internet protocol (IP) OIU resident software image and hashsum are pumped from the AM disk.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from the AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-Wireless resident software image (PH22I) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

PH22S = The PH22 common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

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PH31S = The protocol handler 31 for high speed signaling links image and hashsums are pumped from the AM disk.

PH33Q = The protocol handler 33 for generalized QLPS protocol handler image and hashsums are pumped from the AM disk.

PH3C = The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from the AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are pumped from the AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from the AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from the AM disk as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from the AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from the AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from the AM disk.

PHA2A = The protocol handler for ATM version 2 (PHA2) resident software image and hashsum are pumped from the AM disk.

PHE1 = The set of two protocol handler with SCSI/ethernet (PHE1) resident software images and hashsums are pumped from the AM disk.

PHE2E = The protocol handler with SCSI/ethernet version 2 (PHE2) resident software images and hashsums are pumped from the AM disk.

PHE2S = The PHE2 and session initiation protocol for telephony (SIP-T) (PHE2S) resident software images and hashsums are pumped from the AM disk.

PHE3B = The protocol handler with ethernet version 3 (PHE3) resident software image and hashsums are pumped from the AM disk. This image provides bearer interface to the cell site backhaul IP network.

PHE3N = PHE3 resident software image and hashsums are pumped from the AM disk. This image provides bearer interface to the IP Core network.

PHE4I = The protocol handler with ethernet version 4 (PHE4) resident software image and hashsums are pumped from the AM disk. This image supports inter PSU traffic over an IP network.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from the AM disk.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

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PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are pumped from the AM disk. This includes the PHV5C and V5DSPCDMA images and hashsums.

PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are pumped from the AM disk. This includes the PHV6C and V6DSPCDMA images and hashsums.

PHV7C = The set of six speech handler (PHV7) resident application images and hashsums are pumped from the AM disk. When the ODRID is requested, additional ODRs are automatically pumped, including the PHV7HW hardware image and hashsum, the PH50FW firmware image and hashsum, the PH50FS FPGA image and hashsum, the PH50PA FPGA image and hashsum, and the default V7DSPA image and hashsum.

PI = The packet interface (PI) resident software image and hashsum are pumped from AM disk.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are pumped from the AM disk.

PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown:

Image Name:	Description:
CF3FW	CF3 Firmware image
CF3HW	CF3 Hardware image
PF3FW	PF3 Firmware image
PF3HW	PF3 Hardware image

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are pumped from the AM disk. The HDSU diagnostic software image and hashsum are pumped from the AM disk in conjunction with this request if not already pumped.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from the AM disk. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V5DEVRCB = The consolidated EVRC and EVRC-B DSP software image and hashsum are pumped from the AM disk, for use with the PHV6 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from the AM disk, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV5 speech handlers.

V6DCKTVOC = The CKTVOC DSP image and hashsums are pumped from the AM disk for

use with the PHV6 circuit vocoder.

V6DCVEVB = The consolidated EVRC and EVRC-B circuit vocoder DSP software image and hashsum are pumped from the AM disk, for use with the PHV6 speech handlers.

V6DEVRCB = The consolidated EVRC and EVRC-B DSP software image and hashsum are pumped from the AM disk, for use with the PHV6 speech handlers.

V6DPKTVOC = The PKTVOC DSP image and hashsums are pumped from the AM disk for use with the PHV6 packet vocoder.

V6DPVEVB = The consolidated EVRC and EVRC-B packet vocoder DSP software image and hashsum are pumped from the AM disk, for use with the PHV6 speech handlers.

V6DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from the AM disk, for use with the PHV6 speech handlers.

V7DSPA = The DSP version A image and hashsums are pumped from the AM disk, for use with the PHV7 speech handlers.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request not initiated due to bad syntax or invalid SM specified.

PF = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

STP:NIPMP

Output Message(s):

REPT:NIPMP

Input Appendix(es):

APP:RANGES

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ST:NRODDGRW-A

Software Release: 5E15 - 5E16(1)
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Increases the size of physical memory allocated to the protected non-redundant database. Only one switching module (SM) office-dependent data (ODD) growth at a time is allowed: non-redundant (ST:NRODDGRW), redundant (ST:RODDGRW), unprotected (ST:UODDGRW), or the bitmap salvage technique (ST:ODDBST).

2. FORMAT

```
ST:NRODDGRW,SM=a,KBYTES=b;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = Amount of growth space to be added, in kilobytes. The number input must be a multiple of 16 (for example 16, 32, 48, ... 2048) not to exceed 2048; otherwise the growth will not start. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:NRODDGRW input message.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with system or equipment status. Valid value(s):
- `GROWTH SIZE NOT A MULTIPLE OF 16` = The input number of kilobytes must be a multiple of 16.
- `SM NOT OPERATIONAL OR IN SPECIAL GROWTH MODE` = The SM specified must be operational or in the special growth mode.

`PF` = Printout follows. Followed by ST:NRODDGRW output message.

`RL` = Retry later. Request cannot be executed now. Valid value(s):
- `ANOTHER ODD GROWTH OR ODDBST EXECUTING` = Retry after current ODD growth or ODDBST completes.
- `ODD BACKUP CURRENTLY IN PROGRESS` = Retry after the ODD backup process completes.
- `RECOVERING FROM PREVIOUS ODDBST OR ODD GROWTH` = The recovery of a previous ODD growth or ODDBST is currently in progress.

5. REFERENCES

Input Message(s):

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```
ST:ODDBST
ST:RODDGRW
ST:UODDGRW-SM
```

Output Message(s):

```
ST:NRODDGRW-SM
```

Other Manual(s):

235-105-220 *Corrective Maintenance*

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ST:NRODDGRW-B

Software Release: 5E16(2) and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Increases the size of physical memory allocated to the protected non-redundant database. Only one office-dependent data (ODD) growth at a time is allowed: non-redundant (ST:NRODDGRW), redundant (ST:RODDGRW), unprotected (ST:UODDGRW), or the bitmap salvage technique (ST:ODDBST).

2. FORMAT

```
ST:NRODDGRW,{SM=a|CMP=a},KBYTES=b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) or communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`b` = Amount of growth space to be added, in kilobytes. The number input must be a multiple of 16 (for example 16, 32, 48, ... 2048) not to exceed 2048; otherwise the growth will not start. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:NRODDGRW input message.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with system or equipment status. May also include:

- `GROWTH SIZE NOT A MULTIPLE OF 16` = The input number of kilobytes must be a multiple of 16.
- `SM NOT OPERATIONAL OR IN SPECIAL GROWTH MODE` = The SM specified must be operational or in the special growth mode.
- `MATE CMP MUST BE OOS BEFORE EXECUTING NRODD GROWTH` = The mate CMP must be out of service (OOS) before executing the CMP non-redundant ODD (NRODD) growth command.

`PF` = Printout follows. Followed by the ST:NRODDGRW output message.

`RL` = Retry later. Request cannot be executed now. May also include:

- `ANOTHER ODD GROWTH OR ODDBST EXECUTING` = Retry after current ODD growth or ODDBST completes.
- `ODD BACKUP CURRENTLY IN PROGRESS` = Retry after the ODD backup process completes.
- `RECOVERING FROM PREVIOUS ODDBST OR ODD GROWTH` = The recovery of a previous ODD growth or ODDBST is currently in progress.

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5. REFERENCES

Input Message(s):

```
ST:ODDBST
ST:RODDGRW
ST:UODDGRW
```

Output Message(s):

```
ST:NRODDGRW
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ST:ODDBST

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Performs the blockid conversion for the redundant office-dependent data (RODD). The RODD bitmap may need to be converted for future RODD and/or non-redundant office dependent data (NRODD) growth to be performed.

The process invoked by this ST:ODDBST input message is the bitmap salvage technique (BST). The BST will relocate the portion of the RODD bitmap being used (last half of the RODD bitmap) to the beginning of the RODD bitmap. Also, the RODD relation's blockids will be converted to point to the first half of the RODD bitmap. NRODD growth or RODD growth will output a message indicating when it is necessary to run the BST.

2. FORMAT

```
ST:ODDBST,SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = SM number that specifies the last number in a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Input request not valid.

`PF` = Printout follows. Request accepted. Followed by the ST:ODDBST output message.

5. REFERENCES

Input Message(s):

```
ST:NRODDGRW
ST:RODDGRW
```

Output Message(s):

```
ST:NRODDGRW-SM
ST:ODDBST-SM
ST:RODDGRW
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ST:ODDCREAT-SM

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that a new copy of office-dependent data (ODD) be created for a switching module (SM) that is being added to the switch.

2. FORMAT

```
ST:ODDCREAT,SM=a[,UODDSZ=b][,NRODDSZ=c];
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

`b` = Requested size of unprotected ODD in kilobytes. Must be on an 16k boundary (that is, must be a multiple of 16). If a value of zero is entered for both the uoddsz and the nroddsz fields, the default size of the unprotected and nonredundant ODDs will be calculated and printed out with the oddcreat output message.

`c` = Requested size of nonredundant ODD in kilobytes. Must be on an 16k boundary (that is, must be a multiple of 16). If a value of zero is entered for both the uoddsz and the nroddsz fields, the default size of the unprotected and nonredundant ODDs will be calculated and printed out with the oddcreat output message.

4. SYSTEM RESPONSE

`NG` = No good. Input request was not valid.

`PF` = Printout follows. Request accepted. Followed by an ST:ODDCREAT-SM output message.

5. REFERENCES

Output Message(s):

```
ST:ODDCREAT-SM
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ST:ODDRM-SM

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that office-dependent data (ODD) files be removed from an switching module (SM) that is being removed from the office.

2. FORMAT

```
ST:ODDRM,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Input request is not valid.

`PF` = Printout follows. Request accepted. Followed by the ST:ODDRM-SM output message.

5. REFERENCES

Output Message(s):

```
ST:ODDRM-SM
```

Input Appendix(es):

```
APP:RANGES
```

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ST:ODDUPD

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests initiative of an update of all multi-module remote switching module (MMRSM) site common office dependent data (ODD) in all RSMs which are members of the MMRSM site. The function of this message is to move the association of a remote switching module (RSM) from one MMRSM site to another MMRSM site.

Note: This input message is only used in conjunction with the RSM association/disassociation procedure which is part of MMRSM growth/degrowth. This function can take several minutes to complete.

2. FORMAT

```
ST:ODDUPD,FROM=a-b,TO=c-d;
```

3. EXPLANATION OF MESSAGE

`a` = MMRSM site number (1-174) from which the RSM is to be moved.

`b` = Remote member (1-4) in MMRSM site '`a`' of RSM to be moved.

`c` = MMRSM site number (1-174) to which the RSM is to be joined.

`d` = Remote member (1-4) in MMRSM site '`c`' to which RSM is to be assigned.

4. SYSTEM RESPONSE

`NG` = No good. The input request is not valid.

`PF` = Printout follows. Followed by the ST:ODDUPD-MMRSM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
ST:ODDUPD-MMRSM
```

Other Manual(s):
235-105-231 *Hardware Change Procedures*

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ST:OPUMP-CMP

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests a download of the off-line communication module processor (CMP) memory for the specified CMP from the off-line administrative module (AM) disk followed by an off-line verification.

2. FORMAT

```
ST:OPUMP,CMP=a,MATE;
```

3. EXPLANATION OF MESSAGE

MATE	= Mate, or non-active, CMP member.
a	= CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF	= Printout follows. Message received. Followed by the ST:OPUMP-CMP output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:CMP
```

Output Message(s):

```
ST:OPUMP-CMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

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235-105-24x *Software Release Retrofit*

MCC Display Page(s):

1851 (CMP INH AND RCVRY CNTL)

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ST:OPUMP-SM

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests a download of the off-line module controller/time slot interchange (MCTSI) memory for each specified switching module (SM) from the active or off-line administrative module (AM) disk, with or without an off-line verification. For successful execution, this input message requires that the active MCTSI of each specified SM be forced and the off-line MCTSI be forced unavailable.

Format 1 shows the method used to off-line pump the SM and optionally off-line pump the SM peripherals. All duplex peripherals within an SM are downloaded when the PERF and VFY options are specified. For successful execution of the peripheral download, all of the affected peripherals must be in an active/standby state. The peripheral side that is opposite the SM side is the one that will be removed from service and pumped. The PERF option is ignored on those SMs without duplex peripherals. This format requires the disk (ACTDISK, OFLDISK), verify (VFY) and PERF options to be set to perform an off-line pump of the SM and its peripherals. The off-line pump of multiple SMs is normally performed using a broadcast mechanism, reducing the amount of time it takes to off-line pump multiple SMs. Offline pump does not use the broadcast mechanism for RSMs or when the NBCST option is used.

Format 2 shows the method used to off-line pump the SM peripherals only. This format is used when a peripheral failed to off-line pump and the SM has been successfully downloaded and verified. Requests for a download of just the peripherals can only be performed after an off-line download of the SM with a successful completion of off-line verification. The disk and verification parameters are omitted in this format.

2. FORMAT

```
[1]    ST:OPUMP,SM=a[&&b],{ACTDISK|OFLDISK},{VFY|NVFY},{PERF|NPERF}
       [,NBCST][,HSM][,LSM][,RSM][,ORM][,TRM];

[2]    ST:OPUMP,SM=a[&&b],PERF;
```

3. EXPLANATION OF MESSAGE

`ACTDISK` = Off-line pump is to be from the existing software release.

`HSM` = Offline pump HSMs within the range indicated.

`LSM` = Offline pump LSMs within the range indicated.

`NBCST` = Do not broadcast the off-line pump. If this option is chosen, the SMs will be off-line pumped one at a time rather than like SMs (such as, LOADED) being pumped in parallel.

`NPERF` = Do not perform off-line pump on all duplex peripherals.

`NVFY` = Do not execute off-line verification.

`OFLDISK` = Off-line pump is to be from the new software release.

`ORM` = Offline pump ORMs within the range indicated.

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PERF = Perform off-line pump on all duplex peripherals.

RSM = Offline pump RSMs within the range indicated.

TRM = Offline pump TRMs within the range indicated.

VFY = Execute off-line verification.

a = SM number, or the lower limit for a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit of the range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Process not initiated due to bad syntax or invalid SM specified.

PF = Printout follows. Message received. Followed by the REPT:SM-HASHSUM or REPT:SM-OFFLINE output message.

5. REFERENCES

Input Message(s):

```
STP:OPUMP-SM
```

Output Message(s):

```
REPT:SM-HASHSUM
REPT:SM-OFFLINE
```

Input Appendix(es):

```
APP:RANGES
```

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ST:OVERLAY

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the termination or initialization of the recent change kernel process (RCKP). If RCKP is terminated, its freed memory space can be automatically overlaid with the DBdiskrc process of the PRE-release recent change reapplication (RCR) process (only during retrofit) or manually requested to be overlaid with the RCKP version on disk.

During retrofit, memory is needed to allow the entire PRERCR process to reapply all recent changes (RCs) and customer-oriented recent changes (CORCs) before the initialization on the new software release. When DBdiskrc is initialized, recent changes are inhibited. When RCKP is initialized, communication with RCKP is allowed. To perform RCs, RCs must be allowed (using the ALW:RC input message). The RCKP option is used during retrofit to terminate PRERCR's execution and to allow emergency RCs after PRERCR has been manually stopped (EXC:RCR input message).

WARNING: THIS MESSAGE SHOULD ONLY BE USED for retrofit and inside the message switch (MSGS) file of a software update package for a large field update of RCKP. Before this message can be used, all software updates for RCKP and operational kernel process (OKP) must be made permanent (if official) or backed out (if temporary), and RCs must be inhibited.

2. FORMAT

```
ST:OVERLAY,PROD=a;
```

3. EXPLANATION OF MESSAGE

`a` = The product that is to be copied from disk to overlay RCKP:

- `NONE` = RCKP is terminated only. No product is to be initialized.
- `RCKP` = RCKP process. If RCs are needed, this option initializes RCKP. If RCKP has not been terminated, this option will terminate RCKP first. If emergency RCs are needed while PRERCR is running, this option should be used after PRERCR manually stopped.

  By using this option when large field updates are needed, file replacement of RCKP occurs.
- `RCR` = DBdiskrc kernel process of PRERCR. RCKP is terminated automatically.

4. SYSTEM RESPONSE

`IP` = In progress. RCKP is about to be recreated.

`NG` = No good. May also include:

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- `NON_RETROFIT` = RCR only used during retrofit.
- `RCKP NOT RUNNING` = Should use EXC:RCR,START to start PRERCR.
- `RCR ALREADY RUNNING` = Should use EXC:RCR,STOP to stop PRERCR first followed by ST:OVERLAY,PROD=RCKP if RCKP to be initialized.

`PF` = Printout follows. Followed by the ST:OVERLAY output message.

5. REFERENCES

Input Message(s):

```
ALW:RC
EXC:RCRLS
INH:RC
```

Output Message(s):

```
EXC:RCRLS
ST:OVERLAY
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x *Software Release Retrofit*

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ST:RODDGRW

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Allocates physical memory to the redundant portion of office dependent data (RODD) for the purpose of growth, provided that there is physical memory available.

WARNING: If an ST:RODDGRW input message is entered before the previous one has completed, the second one will not be honored. Only one growth at a time is possible.

Check the available switching module (SM) memory before inputting this message, and check diagnostics.

2. FORMAT

```
ST:RODDGRW:KBYTES=a;
```

3. EXPLANATION OF MESSAGE

`a` = The amount of growth space to be added, in kilobytes. This number must be a multiple of 16 (such as, 16, 32, 48, ... 2048) not to exceed 2048; otherwise the growth will be aborted. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:RODDGRW input message.

4. SYSTEM RESPONSE

`NG` = No good. Input request not valid.

`PF` = Printout follows. Request accepted. Followed by an ST:RODDGRW output message.

`RL` = Retry later. Request cannot be executed now.

5. REFERENCES

Output Message(s):

```
ST:RODDGRW
```

Other Manual(s):

235-105-220 *Corrective Maintenance*

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ST:UODDGRW-SM

Software Release: 5E15 - 5E16(1)
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an increase in the size of physical memory allocated to the unprotected (dynamic) office-dependent data (ODD).

WARNING: The size increase of the unprotected ODD is at the expense of the non-redundant ODD.

No reversal of this growth is possible. Only one SM ODD growth (unprotected - ST:UODDGRW, non-redundant - ST:NRODDGRW, or redundant - ST:RODDGRW) or bitmap salvage technique (BST) - ST:ODDBST at a time is possible. If an ST:UODDGRW input message is entered before the previous unprotected, non-redundant, redundant, or BST has completed, it will cause service affecting conditions to occur on the processor being grown.

2. FORMAT

```
ST:UODDGRW,SM=a:KBYTES=b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Amount of growth space to be added, in kilobytes. The number input must be a multiple of 16 (for example 16, 32, 48, ... 2048); otherwise the growth will be aborted. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:UODDGRW input message. Since unprotected ODD growth acquires space from the non-redundant ODD, the amount of growth space specified must leave available space in the non-redundant ODD for recent changes. The percent of non-redundant ODD space required to be free after an unprotected ODD growth is given by the SM global parameter DBmavsodd. The OP:ODD input message generates a report on ODD space utilization.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with system or equipment status. Valid value(s):

- `SM NOT OPERATIONAL OR IN SPECIAL GROWTH MODE` = The message syntax is valid, but the request conflicts with system or equipment status. The SM specified must be operational or in the special growth mode.
- `UODD GROWTH SIZE NOT A MULTIPLE OF 16` = The message syntax is valid, but the request conflicts with system or equipment status. The input number of kilobytes must be a multiple of 16.

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`PF` = Printout follows. Followed by an ST:UODDGRW output message.

`RL` = Retry later. Request cannot be executed now. Valid value(s):
- `ANOTHER ODD GROWTH OR ODDBST EXECUTING` = Retry later. Request cannot be executed now. Retry after the current ODD growth or ODDBST completes.
- `ODD BACKUP CURRENTLY IN PROGRESS` = Retry later. Request cannot be executed now. Retry after the ODD backup process finishes.
- `RECOVERING FROM PREVIOUS ODDBST OR ODD GROWTH` = Retry later. Request cannot be executed now because a recovery of a previous ODD growth or ODDBST is currently in progress.

5. REFERENCES

Input Message(s):

```
ST:RODDGRW
ST:NRODDGRW
ST:ODDBST
OP:ODD-AM-SM
```

Output Message(s):

```
ST:UODDGRW
```

Other Manual(s):

235-105-220 *Corrective Maintenance*

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ST:UODDGRW

Software Release: 5E16(2) and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an increase in the size of physical memory allocated to the unprotected (dynamic) office-dependent data (ODD).

WARNING: The size increase of the unprotected ODD is at the expense of the non-redundant ODD.

No reversal of this growth is possible. Only one ODD growth (unprotected - ST:UODDGRW, non-redundant - ST:NRODDGRW, or redundant - ST:RODDGRW) or bitmap salvage technique (BST) - ST:ODDBST at a time is possible. If an ST:UODDGRW input message is entered before the previous unprotected, non-redundant, redundant, or BST has completed, it will cause service affecting conditions to occur on the processor being grown.

2. FORMAT

```
ST:UODDGRW,{SM=a|CMP=a},KBYTES=b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) or communications module processor (CMP) number.

`b` = Amount of growth space to be added, in kilobytes. The number input must be a multiple of 16 (for example 16, 32, 48, ... 2048); otherwise, the growth will be aborted. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:UODDGRW input message. Since unprotected ODD growth acquires space from the non-redundant ODD, the amount of growth space specified must leave available space in the non-redundant ODD for recent changes. The percent of non-redundant ODD space required to be free after an unprotected ODD growth is given by the SM and CMP global parameter DBmavsodd. The OP:ODD input message generates a report on ODD space utilization.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with system or equipment status. May also include:

- `SM NOT OPERATIONAL OR IN SPECIAL GROWTH MODE` = The message syntax is valid, but the request conflicts with system or equipment status. The SM specified must be operational or in the special growth mode.
- `UODD GROWTH SIZE NOT A MULTIPLE OF 16` = The message syntax is valid, but the request conflicts with system or equipment status. The input number of kilobytes must be a multiple of 16.
- `MATE CMP MUST BE OOS BEFORE EXECUTING UODD GROWTH` = The mate CMP must

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be out of service (OOS) before executing the CMP unprotected ODD (UODD) growth command.

PF = Printout follows. Followed by the ST:UODDGRW output message.

RL = Retry later. Request cannot be executed now. May also include:
- ANOTHER ODD GROWTH OR ODDBST EXECUTING = Retry later. Request cannot be executed now. Retry after the current ODD growth or ODDBST completes.
- ODD BACKUP CURRENTLY IN PROGRESS = Retry later. Request cannot be executed now. Retry after the ODD backup process finishes.
- RECOVERING FROM PREVIOUS ODDBST OR ODD GROWTH = Retry later. Request cannot be executed now because a recovery of a previous ODD growth or ODDBST is currently in progress.

5. REFERENCES

Input Message(s):

```
ST:RODDGRW
ST:NRODDGRW
ST:ODDBST
OP:ODD-AM-SM
```

Output Message(s):

```
ST:UODDGRW
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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ST:UPDMHGTRKG

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests an update of the "cluster" attribute in all tuples of the RLRT_MHG and RLRT_TRKG office dependent data (ODD) relations for a particular multi-module remote switching module (MMRSM) site and updates the RLRTANNGRP relation for affected announcement trunk groups associated with the site.

Note: This input message is usually used in conjunction with the remote switching module (RSM) association/disassociation procedure which is part of MMRSM growth/degrowth. This function can take several minutes to complete.

2. FORMAT

```
ST:UPDMHGTRKG,SITE=a;
```

3. EXPLANATION OF MESSAGE

`a` = MMRSM site number (1-174) for which the office data is updated.

4. SYSTEM RESPONSE

`NG` = No good. The input request is not valid.

`PF` = Printout follows. A ST:UPDMHGTRKG output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
ST:UPDMHGTRKG
```

Other Manual(s):
235-105-230 *Multimodule RSM Growth*

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75. STOP

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STOP:AUD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a currently active audit that is controlled by the administrative module (AM) system integrity monitor (SIM) stops.

2. FORMAT

```
STOP:AUD,a=b ;
```

3. EXPLANATION OF MESSAGE

`a` = Audit name. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual for a list of AM audit names.

`b` = Member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual for a list of member numbers.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
```

Output Message(s):

```
AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
```

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```
AUD:FMGR1
AUD:FMGR2
AUD:FMGR3
AUD:FMGR4
AUD:FMGR5
AUD:FMGR6
AUD:FMGR7
AUD:FMGR8
AUD:FMGR9
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
```

Input Appendix(es):

```
APP:AUD
APP:MEM-NUM-AUD
```

Other Manual(s):
235-600-400 *Audits*

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STOP:BKDISK

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the copying of the boot disk to tape be stopped.

2. FORMAT

```
STOP:BKDISK; or STP:BKDISK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. A fatal error was encountered because the system was unable to initiate the stop program. Try to initiate the message again. If the process still fails, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

`PF` = Printout follows. Followed by a COPY:BKDISK output message.

5. REFERENCES

Input Message(s):

```
COPY:BKDISK
STP:BKDISK
```

Output Message(s):

```
COPY:BKDISK
```

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STOP:CMPR-MHD

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Stops any CMPR:MHD input messages that are currently executing.

2. FORMAT

```
Refer to the STP:CMPR-MHD input message.
```

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

`NG` = No good. No CMPR:MHD input message currently executing.

`OK` = Request accepted.

5. REFERENCES

Input Message(s):

```
CMPR:MHD
```

Output Message(s):

```
CMPR:MHD
```

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STOP:COPY-DIFF

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Stops any COPY:DIFF:SRC input messages that are currently executing.

2. FORMAT

Refer to the STP:COPY-DIFF input message.

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

NG = No good. No COPY:DIFF-SRC input message currently executing.

OK = Request accepted.

5. REFERENCES

Input Message(s):

COPY:DIFF-SRC-MHD

Output Message(s):

COPY:DIFF-SRC-MHD

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STOP:DCI

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests a termination of the DCI process.

When terminated, all DCI devices will be taken out of service after failing all jobs. Use the RST:DCI input message to restart and return the devices to the active state.

2. FORMAT

```
STOP:DCI
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Event was sent to the DCI process port. The DCI process will be terminated.

`RL` = Retry later. Either STOP:DCI could not get the process identifier (PID) of the DCI process or it could not send an event to it.

5. REFERENCES

Input Message(s):

```
RMV:DCI
RST:DCI
```

Output Message(s):

```
RMV:DCI
RST:DCI
```

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STOP:DMQ

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified administrative module (AM) maintenance request be stopped. The request is identified by the unit name and number and optionally the subunit name and number. Any request handled by the maintenance input request administrator (MIRA) (restore, remove, diagnose) can be stopped by using this message.

2. FORMAT

```
STOP:DMQ[:[a=b[,c=d]][,ACTIVE|,WAITING]];
```

3. EXPLANATION OF MESSAGE

`ACTIVE` = Stop only active maintenance requests.

`WAITING` = Stop only waiting maintenance requests.

Note: If neither ACTIVE nor WAITING is specified, then both requests will be stopped.

`a` = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`c` = Subunit name, if a=CU. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

`d` = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a STOP:DMQ output message.

`RL` = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

```
OP:DMQ
STP:DMQ
```

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Output Message(s):

```
OP:DMQ
STOP:DMQ
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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STOP:ECDAUD

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a currently running on-switch ECD audit be terminated.

2. FORMAT

```
STOP:ECDAUD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the STOP:ECDAUD output message.

5. REFERENCES

Input Message(s):

```
EXC:ECDAUD
INH:ECDAUD
ALW:ECDAUD
SCHED:ECDAUD
OP:ECDAUD
```

Output Message(s):

```
STOP:ECDAUD
```

Other Manual(s):
235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance Manual*

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STOP:EXC-ANY

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that any specified process be stopped. The process can be killed either by specifying the process ID (PID) number or the pathname.

WARNING: Improper use of this input message may cause unpredictable system failures.

2. FORMAT

```
STOP:EXC,ANY,{PID=a|FN="b"},UCL;
```

3. EXPLANATION OF MESSAGE

`a` = ID number of the process to be terminated.

Note: If a nonexistent process ID is used, the system prints a STOPPED message followed by the *UNIX*® RTR 'pkill' message.

`b` = Pathname of the file.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the STOP:EXC-ANY output message.

5. REFERENCES

Input Message(s):

```
OP:ST-PROC
STOP:EXC-USER
STP:EXC-ANY
```

Output Message(s):

```
OP:ST-PROC
STOP:EXC-ANY
```

MCC Display Page(s):

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01 (CRAFT FM)

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STOP:EXC-USER

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a user process specified either by ID number or by pathname be stopped.

WARNING: Use of this input message to stop a monitored process will prevent it from being restarted automatically. The INIT:ULARP input message can be used to restart ULARP and processes monitored by ULARP.

2. FORMAT

```
STOP:EXC,USER,{PID=a|FN="b"}[,SIG=c];
```

3. EXPLANATION OF MESSAGE

`a` = ID number of the process to be terminated.

`b` = Pathname of the process to be terminated. Pathname of the file.

`c` = Signals (default is 15 if PID is used and 9 if FN is used). Valid value(s):

1	= Hang up.
2	= Interrupt.
3	= Quit.
4	= Illegal instruction"
	= not reset when caught.
5	= Trace trap"
	= not reset when caught.
6	= IOT instruction.
7	= EMT instruction.
8	= Floating point exception.
9	= Kill"
	= cannot be caught or ignored.
10	= Bus error.
11	= Segmentation violation.
12	= Bad argument to system call.
13	= Write on a pipe with no one to read it.
14	= Alarm clock.
15	= Software termination signal.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the STOP:E-USER output message.

5. REFERENCES

Input Message(s):

```
INIT:ULARP
OP:ST-PROC
STOP:EXC-ANY
STOP:EXC-USER
```

Output Message(s):

```
OP:ST-PROC
STOP:EXC-USER
```

MCC Display Page(s):

01 (CRAFT FM)

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STOP:GEN

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administrative module (AM) system-update message in progress be stopped. This is used to terminate the process associated with a previous UPD:GEN input message.

2. FORMAT

```
STOP:GEN[:UCL]; or STP:GEN[:UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditional execution. If the process cannot be terminated using termination or kill signals, it will be terminated by a more extreme method. In this case, some system resources in use by the process may not be released automatically.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by STOP:GEN output message.

5. REFERENCES

Input Message(s):

```
STP:GEN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
```

Output Message(s):

```
STOP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

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STOP:LNUPD

Software Release: 5E15 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Terminates or interrupts the updating of the software of all SS7 nodes before the update procedure has been completed.

2. FORMAT

```
STOP:LNUPD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the STOP LNUPD output message.

`RL` = Retry later. Request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
LNUPD:LN
OP:LNUPD
```

Output Message(s):

```
LNUPD:LN
OP:LNUPD
REPT:LNUPD
STOP:LNUPD
```

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STOP:OFLBOOT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

To stop the offline boot (OFLBOOT) procedure. This input message can be used any time that the OFLBOOT procedure is in progress. It will stop the OFLBOOT procedure, and re-establish a duplex configuration. Optionally, it will submit requests to restore to service those units that were part of the off-line side.

2. FORMAT

```
STOP:OFLBOOT:[RST];
```

3. EXPLANATION OF MESSAGE

`RST` = If specified, requests will be submitted to restore units that were part of the off-line side.

4. SYSTEM RESPONSE

`IP` = In progress.

`?A` = Action field contains an error.

`?E` = Error exists in the message.

`?I` = Identification field contains an error.

5. REFERENCES

Input Message(s):

```
EXC:OFLBOOT
SW:OFLBOOT
```

Output Message(s):

```
EXC:OFLBOOT
REPT:OFLBOOT
STOP:OFLBOOT
SW:OFLBOOT
```

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STOP:RG1AUD

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Provides the ability to stop the execution of a CNI Ring 1 Audit.

2. FORMAT

```
STOP:RG1AUD
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = The STOP RG1AUD output message will be output.

5. REFERENCES

Input Messages:

```
EXC:RG1AUD
OP:RG1AUD
```

Output Messages:

```
EXC:RG1AUD
OP:RG1AUD
REPT:RG1AUD
STOP:RG1AUD
```

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STOP:RTRACK

Software Release: 5E15 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Requests the termination of ring tracker mode.

2. FORMAT

```
STOP:RTRACK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. The request was not accepted; reason will follow.

`PF` = Printout follows. Followed by a STOP:RTRACK output message. If accepted, ring tracker mode is terminated.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
ALW:RTRACK
EXC:RTRACK
INH:RTRACK
OP:RTRACK
```

Output Message(s):

```
ALW:RTRACK
EXC:RTRACK
INH:RTRACK
OP:RTRACK
REPT:RING-CFR
STOP:RTRACK
```

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STOP:TRAP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a trap be stopped or removed from the internal database. Also, disk space can be initialized or set to not overwrite upon wrap-around of the circular buffer space.

2. FORMAT

```
[1]    STOP:TRAP:{ID|RMTID}={a[-a[-a[-a]]] | ALL};

[2]    STOP:TRAP:{INIT|OVRWT}={Y|N};
```

3. EXPLANATION OF MESSAGE

`ALL` = Stop or remove all traps.

`ID` = ID of traps be stopped. Note that these traps cannot be activated by an ALW:TRAP input message. Status or results of these stopped traps can be obtained by entering the OP:TRAP input message.

`INIT` = Initialize of disk space. This allows for the entire disk space to be freed. If "Y" is given, all trapped messages that have been collected will be discarded. All active traps will be inhibited and information collected prior to a disk initialization will be discarded. All completed, aborted, or terminated traps will be removed from the internal database. No system action will be taken if "N" is specified.

`N` = No. Do not perform the indicated operation.

`OVRWT` = Overwrite disk. This allows for the contents of the disk to be overwritten if necessary. If "Y" is given, all ensuing trapped messages collected may be overwritten. Disk overwrite will remain active unless otherwise specified by this input message. If "N" is given, all ensuing trapped messages on the disk will not be overwritten.

`RMTID` = Remove trap ID. Traps will be permanently removed from the internal database for the specified identification numbers or ALL. Active or inhibited traps that are to be removed must have been stopped with a STOP:TRAP input message prior to being removed. No trap status or results can be obtained once these traps have been deleted from the database.

`Y` = Yes. Perform the indicated operation.

`a` = Trap identification number. There can be a maximum of five.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a STOP:TRAP output message.

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5. REFERENCES

Input Message(s):

```
ALW:TRAP
INH:TRAP
OP:TRAP
SET:TRAP
```

Output Message(s):

```
STOP:TRAP
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

118 (CNI FRAME AND CCS LINE STATUS)

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76. STP

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STP:AIUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an access interface unit common data and control controller (COMDAC).

2. FORMAT

```
STP:[a,]AIUCOM=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.
- `SW` = Switch.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:AIUCOM output message.

5. REFERENCES

Input Message(s):

```
DGN:AIUCOM
OP:DMQ-CM-SM
OP:OOS
RMV:AIUCOM
RST:AIUCOM
SW:AIUCOM
```

Output Message(s):

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```
STP:AIUCOM
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1320,y,x (AIU SUMMARY)

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STP:AIULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an access interface unit (AIU) line circuit (LC).

2. FORMAT

```
STP:[a,]AIULC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the AIU LC). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:AIULC output message.

5. REFERENCES

Input Message(s):

```
DGN:AIULC
OP:DMQ-CM-SM
OP:OOS
RMV:AIULC
RST:AIULC
```

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Output Message(s):

```
STP:AIULC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1323,y,z,x (AIU AP STATUS)

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STP:AIULP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an access interface unit (AIU) line pack (LP).

2. FORMAT

```
STP:[a,]AIULP=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the AIU LP). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:AIULP output message.

5. REFERENCES

Input Message(s):

```
DGN:AIULP
OP:DMQ-CM-SM
OP:OOS
RMV:AIULP
RST:AIULP
```

Output Message(s):

```
STP:AIULP
```

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Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1320,y,x (AIU SUMMARY)
1323,y,z,x (AIU AP STATUS)

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STP:AIUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an access interface unit (AIU) timeslot group (TSGRP).

2. FORMAT

```
STP:[a,]AIUTSGRP=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the AIU TSGRP). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common data and control circuit (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:AIUTSGRP output message.

5. REFERENCES

Input Message(s):

```
DGN:AIUPIDB
OP:DMQ-CM-SM
OP:OOS
RMV:AIUPIDB
RST:AIUPIDB
```

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Output Message(s):

```
STP:AIUTSGRP
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1321,y,x (AIU TSGRP SUMMARY)

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STP:AIURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an access interface unit (AIU) ring generator (RG).

2. FORMAT

```
STP:[a,]AIURG=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the AIU RG). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Ring generator number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:AIURG output message.

5. REFERENCES

Input Message(s):

```
DGN:AIURG
OP:DMQ-CM-SM
OP:OOS
RMV:AIURG
RST:AIURG
```

Output Message(s):

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```
STP:AIURG
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1320,y,x (AIU SUMMARY)
1322,y,x (AIU RG STATUS)

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STP:ALE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the current automatic line evaluation (ALE) session be stopped. The administrative module (AM) terminal process will attempt to stop the switching module (SM) currently running ALE. A maximum time of 5 minutes may elapse before ALE terminates.

This request may be used to stop an automatically invoked ALE session or one of the manually invoked ale operations, that is, ALW, EXC, INH, or OP input verbs. The default operation is to stop the automatically invoked ALE or the demand EXC:ALE sessions.

2. FORMAT

```
STP:ALE[,ALW|,EXC|,INH|,OP];
```

3. EXPLANATION OF MESSAGE

`ALW` = Stop the session invoked using the ALW:ALE input request.

`EXC` = Stop the automatically invoked ALE session of the session invoked using the EXC:ALE input request.

`INH` = Stop the session invoked using the INH:ALE input request.

`OP` = Stop the session invoked using the OP:ALE input request.

4. SYSTEM RESPONSE

`NG` = No good. The request was not recognized, or was not acceptable. May also include:
- `ALE FEATURE NOT LOADED` = The ALE feature in not loaded in the switch software configuration.
- `COMMUNICATION FAILURE` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `PROCESS CREATION FAILURE` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

`PF` = Printout follows. The request has been accepted. Followed by the STP:ALE-COMPL output message.

`RL` = Retry later.
- `ALE ACTIVE` = Only one ALE session may be requested at a time. Wait for completion or stop the session manually.
- `AM IN MIN MODE` = The AM is in minimum operation mode.

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5. REFERENCES

Input Message(s):

```
ALW:ALE
EXC:ALE
EXC:LIT
INH:ALE
OP:ALE
```

Output Message(s):

```
ALW:ALE
EXC:ALE
EXC:ALE-LVL1
EXC:ALE-LVL2
EXC:ALE-PER
INH:ALE
OP:ALE
STP:ALE-COMPL
```

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STP:ALIT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the automatic line insulation test (ALIT) circuit at the specified location be stopped.

2. FORMAT

```
STP:[a,]ALIT=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the ALIT). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = MSU board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:ALIT output message.

5. REFERENCES

Input Message(s):

```
DGN:ALIT
EX:ALIT
RMV:ALIT
RST:ALIT
```

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Output Message(s):

```
STP:ALIT
```

Input Appendix(es):

```
APP:RANGES
```

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STP:AMATAPE

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the tape writing process be stopped. The automatic message accounting (AMA) data previously written to the tape will not be lost.

2. FORMAT

```
STP:AMATAPE[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Send AMA data to the ST1 data stream.

`ST2` = Send AMA data to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

`NG` = No good. The teleprocessing option is in effect or the tape option is in effect but tape writing is not in progress, or data stream checks failed.

`PF` = Printout follows. Followed by the REPT:AMATAPE-COMP output message. If any invalid data was encountered while processing the input message, an audit printout will follow.

`RL` = Retry later. Message could not be sent to the tape writer to stop the tape session.

5. REFERENCES

Input Message(s):

```
ABT:AMATAPE
OP:AMA-STREAM
```

Output Message(s):

```
REPT:AMATAPE-COMP
```

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STP:APT

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a manually or automatically scheduled automatic progression testing (APT) session that is currently executing be stopped.

2. FORMAT

```
STP:APT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The request was not accepted because APT is not currently executing.

`PF` = Printout follows. The request has been accepted and the test has been stopped. Followed by an STP:APT output message.

`NA` = No Action. May also include:

- `APT IS ABOUT TO FINISH` = No action has been taken because APT is already in the process of finishing up.
- `APT IS BEING STOPPED` = No action has been taken because APT is already in the process of being stopped.

5. REFERENCES

Input Message(s):

`SCHED:APT`

Output Message(s):

`STP:APT`

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-250 *System Recovery Procedures*
235-900-113 *Product Specification*

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STP:ASC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be stopped.

2. FORMAT

```
STP:[a,]ASC=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the ASC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:ASC output message.

5. REFERENCES

Input Message(s):

```
DGN:ASC
EX:ASC
RMV:ASC
RST:ASC
```

Output Message(s):

```
STP:ASC
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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STP:ATTS

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Disables the automatic execution of test sessions defined in a specified ATTS (Automatic Trunk Test Scheduler) test schedule.

When a schedule is stopped unconditionally, it will always be placed in the "STOPPED" state. If the specified schedule is in the "RUNNING" state at the time this input message is processed, then the test session currently executing will be terminated upon completion of the test call in progress. When a schedule is stopped conditionally, it will be placed in either the "STOPPED" or "SUSPENDED" state. If the specified schedule is in the "RUNNING" state at the time this input message is processed, then the schedule will be placed in the "SUSPENDED" state and the test session currently executing will be interrupted upon completion of the test call in progress. If the specified schedule is in the "PAUSING" state at the time this input message is processed, then the schedule will also be placed in the "SUSPENDED" state even though no testing is being performed. Otherwise, the schedule will be placed in the "STOPPED" state. When a schedule is in the "SUSPENDED" state, the operation of the previously-interrupted test session will be resumed upon processing of a ST:ATTS input message. Without manual action to resume the session's operation, the schedule will remain in the "SUSPENDED" state until the scheduled stopping time of the interrupted session arrives, at which time the session will terminate and the schedule will automatically be placed in the "STOPPED" state.

2. FORMAT

```
STP:ATTS,SCHED=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally place the specified schedule in the STOPPED state.

`a` = The number of the ATTS test schedule to be stopped (1 - 20).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the ST:ATTS output message.

5. REFERENCES

Input Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS
```

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Output Message(s):

```
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-100-125 *System Description*
235-105-210 *Routine Operations and Maintenance*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

RC/V View(s):

14.9 (ATTS TEST SESSION SCHEDULE DATA)
14.10 (ATTS TEST SCHEDULE PARAMETER)

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STP:AUD-CMP

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Stops the currently executing audit in a communication module processor (CMP). This message will not inhibit future occurrences of the running audit. To inhibit future occurrences, refer to input message INH:AUD-CMP.

2. FORMAT

```
STP:AUD,CMP=a;
```

3. EXPLANATION OF MESSAGE

`a` = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`-INVALID CMP` = The specified CMP does not exist.

`PF` = Printout follows. The request has been received. Followed by the STP:AUD-CMP output message indicating which audit was stopped.

5. REFERENCES

Input Message(s):

`INH:AUD-CMP`

Output Message(s):

`STP:AUD-CMP`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-600-400 *Audits*

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STP:AUD-ENV

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing kernel process environment (OKP or SMKP) audit in the administrative module (AM) be stopped. This message will not inhibit future occurrences of the running audit. To inhibit future occurrences, refer to the INH:AUD-ENV support message.

2. FORMAT

```
STP:AUD,ENV=a;
```

3. EXPLANATION OF MESSAGE

`a` = Kernel process. Valid value(s):

- `OKP` = Operational.
- `SMKP` = Switch maintenance.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `- ARGUMENT FOR ENV MISSING` = The request has been denied because neither OKP nor SMKP were specified for variable '`b`'.
- `- SM TYPE NOT VALID FOR THIS REQUEST` = The request has been denied because an SM type (RSM, LSM, or HSM) was specified for a kernel process environment.

`PF` = Printout follows. Followed by the STP:AUD-ENV output message indicating which audit was stopped.

5. REFERENCES

Input Message(s):

```
INH:AUD-ENV
```

Output Message(s):

```
STP:AUD-ENV
```

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STP:AUD-SM

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing audit be stopped in a switching module (SM) or range of SMs. This message will not inhibit future occurrences of the running audit. To inhibit future occurrences, refer to input message INH:AUD-SM.

2. FORMAT

```
STP:AUD,SM=a[&&b][,RSM][,LSM][,HSM][,ORM][,TRM];
```

3. EXPLANATION OF MESSAGE

`HSM` = Stop the currently running audit in all host switching modules (HSMs) specified.

`LSM` = Stop the currently running audit in all local switching modules (LSMs) specified.

`ORM` = The currently running audit in all optically remote switching modules (ORMs) specified.

`RSM` = Stop the currently running audit in all remote switching modules (RSMs) specified.

`TRM` = The currently running audit in all two mile optically remote switching modules (TRMs) specified.

`a` = SM number, or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `INVALID SM RANGE/TYPE COMBINATION` = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type (or any type) within the range.

`PF` = Printout follows. The request has been received. The audit output message STP:AUD-SM will follow indicating which audit was stopped.

`RL` = Retry later. May also include:
- `MESSAGE BROADCAST INTERNAL ERROR` = The message cannot be sent to the specified SM(s) at the present time due to problems scheduling a job to broadcast the message.

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5. REFERENCES

Input Message(s):

```
INH:AUD-SM
```

Output Message(s):

```
STP:AUD-SM
```

Input Appendix(es):

```
APP:RANGES
```

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STP:AUD-SODD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests the termination of an executing static office-dependent data (SODD) audit as indicated with the parameter list. If no parameters are specified, all executing SODD audits are terminated. A stopped full, incremental, or processor entity audit can be restarted at the point of termination, but the other entity audits can only be re-run in their entirety.

2. FORMAT

```
[1]    STP:AUD=SODD[,FULL|,INCR|,TN=a|,OE="b"|,RELATION="c"|PARAMETER=k,. . .
       . . .{AM|SM=d|CMP}|,MLHG=e[,MEMB=f]|,TGN=g[,MEMB=h]];
       ____________________________________________________________

[2]    STP:AUD=SODD[,BRCS,MFT=i,{AM|SM=j|CMP}];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`AM` = Administration module. The processor on which the relation, as specified in '`c`' or '`i`', is being audited.

`CMP` = Communications module processor (CMP). The processor on which the relation, as specified in '`c`' or '`i`', is being audited.

`FULL` = The full SODD audit is to be stopped.

`INCR` = The incremental SODD audit is to be stopped.

`a` = Telephone number being audited.

`b` = Office equipment type and number being audited.

`c` = Relation being audited, or "`ALL`" if all relations on a specific processor are being audited (that is, processor entity audit).

`d` = Switching module (SM) being audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relation, as specified in '`c`', is being audited.

`e` = Multi-line hunt group being audited.

`f` = Member of multi-line hunt group being audited.

`g` = Trunk group number being audited.

`h` = Member of trunk group number being audited.

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`i` = Name of modular feature type (MFT) or ALL.

`j` = Switching module (SM) being audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relations associated with the MFT, as specified in '`i`', are being audited.

`k` = Global parameter being audited.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the OP:AUD-STATUS or OP:AUD-ERROR output message. May also include:

- `` `OP AUD=SODD` MESSAGE FOLLOWS ``

5. REFERENCES

Input Message(s):

```
EXC:AUD-SODD
SCHED:AUD-SODD
```

Output Message(s):

```
OP:AUD-ERROR
OP:AUD-STATUS
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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STP:AUD

Software Release: 5E15 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a currently active audit that is controlled by the administrative module (AM) system integrity monitor (SIM) be stopped.

2. FORMAT

```
STP:AUD,a=b;
```

3. EXPLANATION OF MESSAGE

`a` = Audit name. AM audit names are listed in the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
STOP:AUD
```

Output Message(s):

```
AUD:CUMEM
AUD:CUSTAT
AUD:ECD
```

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```
AUD:ECDOWN
AUD:FMGR1
AUD:FMGR2
AUD:FMGR3
AUD:FMGR4
AUD:FMGR5
AUD:FMGR6
AUD:FMGR7
AUD:FMGR8
AUD:FMGR9
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
```

Input Appendix(es):

```
APP:AUD
APP:MEM-NUM-AUD
```

Other Manual(s):
235-600-400 *Audits*

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STP:AUTOBKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an automated system backup currently in progress be stopped.

The STP:AUTOBKUP input message is used to gracefully stop an automated system backup that is currently in progress.

If an automated system backup is not currently in progress, STP:AUTOBKUP outputs a message indicating that an automated system backup is not currently in progress.

The automated system backup process (autobkup) executes various input messages in order to perform the backup. If STP:AUTOBKUP is executed while autobkup is executing an input message, the autobkup process will attempt to terminate some of the input messages in order to fully stop the backup. Other input messages will be allowed to continue to completion either because the termination of these input messages may leave the system in an undesirable state, or because the input messages will terminate on their own in a short time.

Automated system backup will attempt to terminate the following input messages.

AUD:FSBLK
AUD:FSLINK
AUD:NIDATA
AUD:NMDATA
CMPR:MHD
COPY:BKDISK

Automated system backup will not attempt to terminate the following input messages.

ALW:RC
BKUP:ODD
CLR:ODDBKUP
CMPR:DISK-CORE
COPY:ACTDISK
COPY:PTN-ALL
COPY:SPDISK
COPY:TAPE-TOP
DUMP:BKTAPE
INH:RC
INIT:MHD
OP:BKUP
RMV:MHD
RST:MHD
UPD:HSCHK
VFY:FILE

2. FORMAT

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```
STP:AUTOBKUP;
```

3. EXPLANATION OF MESSAGE

No Variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the STP:AUTOBKUP output message.

5. REFERENCES

Input Message(s):

```
ALW:AUTOBKUP
ALW:RC
AUD:FSBLK
AUD:FSLINK
AUD:NIDATA
AUD:NMDATA
BKUP:ODD
CLR:BKUP
CLR:ODDBKUP
CMPR:DISK-CORE
CMPR:MHD
COPY:ACTDISK
COPY:BKDISK
COPY:PTN-ALL
COPY:SPDISK
COPY:TAPE-TOP
DUMP:BKTAPE
INH:AUTOBKUP
INH:RC
INIT:MHD
OP:BKUP
RMV:MHD
RST:MHD
SCHED:BKUP
SET:BKUP
UPD:HSCHK
VFY:FILE
```

Output Message(s):

```
STP:AUTOBKUP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance Procedures*

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STP:BCI

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Stops the reporting, begun with an ALW:BCI input message, of line unit concentrator blockages in A- and B-links for originating (ORIG) or terminating (TERM) calls.

2. FORMAT

```
STP:BCI,{ORIG|TERM},SM=a[&&b];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number, or the lower limit in a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit SM number in a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`OK` = Good. The specified originating or terminating call blockage reporting will be stopped.

5. REFERENCES

Input Message(s):

```
ALW:BCI
OP:BCI
```

Output Message(s):

```
OP:BCI
REPT:BCI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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STP:BHA

Software Release: 5E19(1) and later
Command Group: BHA
Application: 5
Type: Input

1. PURPOSE

Requests that the currently printing backhaul association (BHA) related information list be stopped. BHA related information lists are printed in response to an OP:BHA input message. If this input message is successful, the list will stop printing. If this input message is not successful, an STP:BHA output message will print.

2. FORMAT

```
STP:BHA;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the STP:BHA output message.

5. REFERENCES

Input Message(s):

```
OP:BHA
```

Output Message(s):

```
OP:BHA
STP:BHA
```

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STP:BICC

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the processing and output of the bearer independant call control (BICC) data request or task, OP:BICC, be stopped. This request stops the output of segment blocks of an OP:BICC request that have not yet been queued for printing and any further data collection and processing. This request does not stop the output of segment blocks already queued for printing at the time that this stop request is processed.

2. FORMAT

```
STP:BICC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF`	= Printout follows. The request has been accepted and the task is in the process of being stopped. The output message STP:BICC from the stopped task follows, or the output message STP:BICC as a general, non-specific task output message follows.

5. REFERENCES

Input Message(s):

```
OP:BICC
```

Output Message(s):

```
STP:BICC
OP:BICC
```

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STP:BICCBMOVE

Software Release: 5E16(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

This request will stop further execution of EXC:BICCBMOVE.

2. FORMAT

```
STP:BICCBMOVE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted.

`RL` = Retry Later. The request has been denied. Valid value(s):
- `CIC ALLOCATION PROCESS NOT RUNNING`

5. REFERENCES

None.

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STP:BICCCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the active bearer independent call control (BICC) call instance code (CIC) query be stopped. Both demand BICC CIC queries, initiated by an EXC:BICCCQ input message, and periodic automatic queries administered by recent change and verify (RC/V) view 8.15 can be stopped using this input message.

Format 1 is used to stop an office-wide BICC CIC query, either automatically scheduled or manually requested. The optional PRINT parameter specifies whether or not the accumulated results of the query being stopped will be printed. Format 2 is used to stop the active BICC CIC query for the specified originating point code (OPC) and destination point code (DPC). The printing of accumulated output is optional as described above. Format 3 is used to stop the active demand BICC CIC query for the specified BICC group. The printing of accumulated output is optional as described above. Format 4 is used to stop the active BICC CIC query for the specified BICC group member number or BICC group member number range. The printing of accumulated output is optional as described above.

2. FORMAT

```
[1]    STP:BICCCQ,OFFICE[,PRINT];

[2]    STP:BICCCQ,OPC=a,DPC=b[,PRINT];

[3]    STP:BICCCQ,BG=c[,PRINT];

[4]    STP:BICCCQ,BGMN=c-d[&&e][,PRINT];
```

3. EXPLANATION OF MESSAGE

`a` = Originating point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

`b` = Destination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

`c` = BICC group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = BICC group member number or the lower limit of a range of BICC group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The upper limit of a range of BICC group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`PRINT` = Option to print the accumulated results of the BICC CIC query when it is stopped.

4. SYSTEM RESPONSE

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`NG` = No good. May also include:
`– NO SUCH BQ REQUEST EXISTS`

`PF` = Printout follows. The request has been accepted and the query has been stopped. Followed by a STP:BICCCQ output message.

5. REFERENCES

RC/V View(s):

8.15 (CCS OFFICE PARAMETERS)

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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STP:BKDISK

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the copy of the boot disk to tape be stopped.

2. FORMAT

```
STP:BKDISK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. A fatal error was encountered because the system was unable to initiate the stop program. Try the message again. If the process still fails, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

PF = Printout follows. Followed by the COPY:BKDISK output message.

5. REFERENCES

Input Message(s):

```
COPY:BKDISK
STOP:BKDISK
```

Output Message(s):

```
COPY:BKDISK
```

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STP:BRCS

Software Release: 5E15 and later
Command Group: BRCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the business and residential custom services (BRCS) feature audit to be stopped.

WARNING: It is absolutely necessary to wait until all STP:BRCS requests, currently being in progress, are completed, before retrofit can be started.

2. FORMAT

```
STP:BRCS;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the following message:

```
BRCS AUDIT, sm = a
EXC BRCS FEATURE AUDIT IS TERMINATED BY USER REQUEST
```

Where:
a = SM number.

NG = No good. The request was denied.

5. REFERENCES

Input Message(s):

```
EXC:BRCS
OP:BRCS-STATUS
```

Output Message(s):

```
EXC:BRCS
OP:BRCS-STATUS
```

Other Manual(s):
235-118-251 *Recent Change Procedures*

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235-190-103 *BRCS Feature Description*

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STP:BTSR

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the actions on the bootstrapper board (BTSR) at the specified location be stopped.

2. FORMAT

```
STP:[a,]BTSR=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the BTSR). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.
- `TST` = Test.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:BTSR output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:BTSR
EX:BTSR
RMV:BTSR
RST:BTSR
TST:BTSR
```

Output Message(s):

```
STP:BTSR
```

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Input Appendix(es):

APP:RANGES

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STP:CAMP

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that all port camp-on activity be stopped. If a busy port (trunk or line) is being camped on to remove it from service or restore it to service, this message forces the camp-on activity to timeout immediately.

2. FORMAT

```
STP:CAMP,{DN=a|TRK=b-c};
```

3. EXPLANATION OF MESSAGE

`a` = Directory number.

`b` = Trunk group number.

`c` = Member number of the trunk group.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized. Repeat the request.

`PF` = Printout follows. The request has been accepted and the specified camp-on will be removed if possible. Followed by the STP:CAMPON output message.

`RL` = Retry later. The request cannot be executed now because the system is busy.

5. REFERENCES

Output Message(s):

`STP:CAMPON`

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STP:CAMPON-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that all camp-on activity on a trunk, line, data link, or operator services position system port (OSPSPORT) caused by a RMV:TRK, RMV:LINE, RMV:DATALINK, RMV:OSPSPORT, RST:TRK, RST:LINE, RST:DATALINK, or RST:OSPSPORT input message be stopped.

If a traffic busy trunk, line, data link, or OSPSPORT is being camped on from one of the above requests, this message forces the camp-on activity to time-out immediately, causing the RMV or RST to terminate without removing or restoring the trunk, line, data link, or OSPSPORT. The status of the trunk, line, data link, or OSPSPORT will be unchanged. If a directory number (DN) or a line card equipment number (LCEN) or a line circuit equipment number (LCKEN) or an integrated digital carrier unit (IDCU) line equipment number (ILEN) or an integrated digital loop carrier (IDLC) networking equipment number (INEN) is specified and a channel is not specified, and the line, data link, or OSPSPORT is a digital subscriber line (DSL), then the entire DSL (D and both B-channels) will be affected. If the D-channel is specified, then the entire DSL is affected. If a B-channel is specified, then only that channel is affected. If the line being camped on is a 1-DN line time-slot bridging (LTSB) line and a DN with no member number is entered, the camp-ons will be stopped on both lines in the bridged group. If the line being camped on is a LTSB line and a DN with a member number of '1' or '2' is entered, camp-ons will be stopped on the line associated with the member number entered (only the one line will be affected). If the line being camped on is a common DN dual permanent packet B-channel (PPB) DSL and no channel number is entered, the camp-ons will be stopped on both channels of the DSL. If the DN being camped on is a dual PPB DSL and a channel number of 'B1' or 'B2' is entered, camp-ons will be stopped on the channel associated with the channel number entered (only the one channel will be affected).

2. FORMAT

```
STP:CAMPON,a[,CH=b];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Equipment number or identifier. Valid value(s):

AIUEN=f-v^1-w^1-x^1	INEN=f-j^1-h^1-i^1	PKTDN=c
AQEST=c	LCEN=f-j-u^1-l	PLTEN=f-a^2-b^2-c^2-d^2
AQM=d-e	LCKEN=f-j-k-o^1-p^1	PSUEN=d-q^1-r^1-s^1-t^1
DEN=f-g-h-i	LEN=f-j-m-n-o-p	SLEN=f-s-t-u
DN=c[-d^1]	MLHG=q-r	TEN=f-v-w-x-y
EIS=e^1-f^1	NEN=f-j^1-k^1-y^1-l^1-m^1-z^1-n^1	TKGMN=z-a^1
ILEN=f-g^1-h^1-i^1	OIUEN=f-k^2-l^2-m^2-n^2-o^2-p^2-d^2	VANA=f-e^2
		VBRI=f-f^2
		VTRK=f-g^2-h^2
		VNAR=f-i^2

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		VNCR=f-j[2] XDB=d-e

b = Channel identifier. (D, B1, or B2.) Used only for DSL lines, data links, and OSPSPORTs.

c = Telephone number.

d = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Channel number. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

`t` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Member number of the multi-line hunt group (MLHG) or LTSB line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of '1' will stop the camp-on of the lead line and a member number of '2' will stop the camp-on of the associate line.

`e`[1] = EIS identifier on which the (CPDL) terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`l`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Virtual tributary group number. Refer to the APP:RANGE appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d`[2] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[2] = Virtual network announcement resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[2] = Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[2] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[2] = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[2] = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[2] = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[2] = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the STP:CAMPON output message.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

`OP:CAMPON`

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```
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
```

Output Message(s):

```
REPT:CAMPON
STP:CAMPON
```

Input Appendix(es):

```
APP:RANGES
```

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STP:CAMPON-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that all camp-on activity on a trunk, line, data link, or operator services position system port (OSPSPORT) caused by a RMV:TRK, RMV:LINE, RMV:DATALINK, RMV:OSPSPORT, RST:TRK, RST:LINE, RST:DATALINK, or RST:OSPSPORT input message be stopped.

If a traffic busy trunk, line, data link, or OSPSPORT is being camped on from one of the above requests, this message forces the camp-on activity to time-out immediately, causing the RMV or RST to terminate without removing or restoring the trunk, line, data link, or OSPSPORT. The status of the trunk, line, data link, or OSPSPORT will be unchanged.

If a directory number (DN) or a line card equipment number (LCEN) or a line circuit equipment number (LCKEN) or an integrated digital carrier unit (IDCU) line equipment number (ILEN) or an integrated digital loop carrier (IDLC) networking equipment number (INEN) is specified and a channel is not specified, and the line, data link, or OSPSPORT is a digital subscriber line (DSL), then the entire DSL (D and both B-channels) will be affected. If the D-channel is specified, then the entire DSL is affected. If a B-channel is specified, then only that channel is affected.

If the line being camped on is a 1-DN line time-slot bridging (LTSB) line and a DN with no member number is entered, the camp-ons will be stopped on both lines in the bridged group. If the line being camped on is a LTSB line and a DN with a member number of '1' or '2' is entered, camp-ons will be stopped on the line associated with the member number entered (only the one line will be affected).

If the line being camped on is a common DN dual permanent packet B-channel (PPB) DSL and no channel number is entered, the camp-ons will be stopped on both channels of the DSL. If the DN being camped on is a dual PPB DSL and a channel number of 'B1' or 'B2' is entered, camp-ons will be stopped on the channel associated with the channel number entered (only the one channel will be affected).

2. FORMAT

```
STP:CAMPON,a[,CH=b];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Equipment number or identifier. Valid value(s):

`AIUEN=f-v`^{1}`-w`^{1}`-x`^{1}
`AQEST=c`
`AQM=d-e`
`ATMPP=f-q`^{1}`-q`^{2}`-r`^{2}
`DEN=f-g-h-i`
`DN=c[-d`^{1}`]`
`EIS=e`^{1}`-f`^{1}

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```
ILEN=f-g1-h1-i1
INEN=f-j1-h1-i1
LCEN=f-j-u1-l
LCKEN=f-j-k-o1-p1
LEN=f-j-m-n-o-p
MLHG=q-r
NEN=f-j1-k1-y1-l1-m1-z1-n1
OIUEN=f-i2-j2-k2-l2-m1-z1-d2
PKTDN=c
PLTEN=f-a2-b2-c2-d2
PSUEN=d-q1-r1-s1-t1
SLEN=f-s-t-u
TEN=f-v-w-x-y
TKGMN=z-a1
VANA=f-e2
VBRI=f-f2
VTRK=f-g2-h2
XDB=d-e
```

b = Channel identifier. Valid value(s):

```
B1
B2
D
```

Used only for DSL lines, data links, and OSPSPORTs.

c = Telephone number.

d = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Channel number. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`k` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Member number of the multi-line hunt group (MLHG) or LTSB line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of '1' will stop the

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camp-on of the lead line and a member number of '2' will stop the camp-on of the associate line.

`e`[1] = EIS identifier on which the (CPDL) terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Virtual tributary group number. Refer to the APP:RANGE appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`v`[1] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[2] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[2] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[2] = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[2] = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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r[2] = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the STP:CAMPON output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:CAMPON
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
```

Output Message(s):

```
REPT:CAMPON
STP:CAMPON
```

Input Appendix(es):

```
APP:RANGES
```

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STP:CCS-ROUTE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of accessibility status of the destination point codes (DPC), clusters and/or networks in the global switching module (GSM) by the OP:CCS-ROUTE message be stopped.

2. FORMAT

```
STP:CCS,ROUTE[,SM=a];
```

3. EXPLANATION OF MESSAGE

`a` = GSM number. CCS global SM number in which the request is to be stopped. No 'SM=' field on the command line implies request is for all GSMs in office.

4. SYSTEM RESPONSE

`PF` = Printout follows. Request accepted. May also include:
- `MSG SENT TO SOME GSMS` = Not all global SMs were available. Printout follows for the ones the message has been sent to.

`NG` = No good. The message form is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. May also include:
- `GSM/PROTOCOL MISMATCH` = GSM entered by craft does not match protocol.
- `NO GLOBAL SM in the office` = There are no Global SM in the office.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Request cannot be processed because the specified GSM is not accessible.
- `GSM(S) UNAVAILABLE` = Request cannot be processed for all GSMs because one or more GSMs may not be accessible.
- `NO GSMS AVAILABLE` = Request cannot be processed because none of the GSMs in the office is accessible.

5. REFERENCES

Input Message(s):

`OP:CCS-ROUTE`

Output Message(s):

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```
STP:CCS-ROUTE
OP:CCS-ROUTE
```

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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STP:CCSCQ

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the active circuit query request be stopped. Both demand circuit queries, initiated by an EXC:CCSCQ request, and periodic automatic queries administered by RC/V View 8.15 can be stopped by this input message.

Format 1 is used to stop an office-wide circuit query, either automatically scheduled or manually requested. The optional print parameter specifies whether or not the accumulated results of the input message being stopped will be printed. Format 2 is used to stop the active circuit query for the specified OPC/DPC. The printing of accumulated output is optional as described above. Format 3 is used to stop the active demand circuit query for the specified trunk group. The printing of accumulated output is optional as described above. Circuit queries for individual trunk group members can not be stopped (processing is quick and output is limited).

2. FORMAT

```
[1]    STP:CCSCQ,OFFICE[,PRINT];

[2]    STP:CCSCQ,OPC=a,DPC=b[,PRINT];

[3]    STP:CCSCQ,TG=c[,PRINT];
```

3. EXPLANATION OF MESSAGE

`a` = Origination point code number. Refer to the APP:POINT-CODE appendix.

`b` = Destination point code number. Refer to the APP:POINT-CODE appendix.

`c` = Trunk group number. Refer to the APP:RANGES appendix.

`PRINT` = Option to print the accumulated results of the circuit query when it was stopped.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
NO SUCH CQ REQUEST EXISTS
```

`PF` = Printout follows. The request has been accepted and the query has been stopped. Followed by the STP:CCSCQ output message.

5. REFERENCES

Input Message(s):

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```
ALW:CCSCQ
EXC:CCSCQ
INH:CCSCQ
OP:CCSCQ
OP:JOBSTATUS
```

Output Message(s):

```
STP:CCSCQ
EXC:CCSCQ
OP:CCSCQ
OP:JOBSTATUS
```

Input Appendix(es):

```
APP:RANGES
APP:POINT-CODE
```

RC/V View(s):

8.15 (CCS OFFICE PARAMETERS)

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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STP:CDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.

2. FORMAT

```
STP:[a,]CDFI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the CDFI).
- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`
- `NOT STARTED UNIT IN GROWTH STATE`

`PF` = Printout follows. Followed by the STP:CDFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
DGN:CDFI
EX:CDFI
RMV:CDFI
RST:CDFI
```

Output Message(s):

```
STP:CDFI
```

Input Appendix(es):

```
APP:RANGES
```

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STP:CDI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that specified actions on the control data interface (CDI) at the specified location be stopped.

2. FORMAT

```
STP:[a,]CDI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the CDI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:CDI output message.

5. REFERENCES

Input Message(s):

```
DGN:CDI
EX:CDI
RMV:CDI
RST:CDI
```

Output Message(s):

```
STP:CDI
```

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Input Appendix(es):

```
APP:RANGES
```

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STP:CMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that specific actions on a communication module processor (CMP) be stopped (Format 1). Format 2 is used when stopping an offline pump.

2. FORMAT

```
[1]    STP:[a,]CMP=b-c;

[2]    STP:OPUMP,CMP=c,MATE;
```

3. EXPLANATION OF MESSAGE

`MATE` = Non-active CMP.

`a` = Action to be stopped. Valid value(s):

`DGN`	= Diagnose. (Not valid for CM3)
`EX`	= Exercise. (Not valid for CM3)
`RMV`	= Remove.
`RST`	= Restore.
`SW`	= Switch.

Note: The default is all actions currently waiting or executing on the CMP.

`b` = Message switch side number.

`c` = CMP number.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully. If no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the abort (ABT) message, ABT:CMP, as a final resort if the original request is still present.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

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Input Message(s):

```
ABT:CMP
DGN:CMP
EX:CMP
OP:DMQ-CM-SM
RMV:CMP
RST:CMP
ST:OPUMP-CMP
SW:CMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
DGN:CMP
EX:CMP
OP:DMQ-CM
RMV:CMP
RST:CMP
ST:OPUMP-CMP
SW:CMP
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

235-105-250 *System Recovery Procedures*

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STP:CMPR-MHD

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Stops any CMPR:MHD input messages that are currently executing.

2. FORMAT

```
STP:CMPR:MHD;
```

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

`NG` = No good. No CMPR:MHD input message currently executing.

`OK` = Request accepted.

5. REFERENCES

Input Message(s):

```
CMPR:MHD
```

Output Message(s):

```
CMPR:MHD
```

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STP:COPY-DIFF

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Stops any COPY:DIFF:SRC input messages that are currently executing.

2. FORMAT

```
STP:COPY:DIFF;
```

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

`NG` = No good. No COPY:DIFF-SRC-MHD input message currently executing.

`OK` = Request accepted.

5. REFERENCES

Input Message(s):

```
COPY:DIFF-SRC-MHD
```

Output Message(s):

```
COPY:DIFF-SRC-MHD
```

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STP:DCGRPT

Software Release: 5E15 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of information related to calls pegging the default cell group (DCG) be stopped. The DCG is the zero cell group.

2. FORMAT

```
STP:DCGRPT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
`- NOT ALLOWED - DIV OF REV OPTION OFF` = The request has been denied because division of revenue option must be on.

`OK` = Good. The request has been accepted. All subsequent occurrences of calls pegging the default cell group will not print the information report (REPT:DCGRPT).

5. REFERENCES

Input Message(s):

```
ALW:DCGRPT
```

Output Message(s):

```
REPT:DCGRPT
```

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*
TG-5 *Translation Guide*

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STP:DCLU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a specified *SLC®*96 digital carrier line unit (DCLU) stop.

2. FORMAT

```
STP:[a,]DCLU=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the DCLU). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by the STP:DCLU output message.

5. REFERENCES

Input Message(s):

```
DGN:DCLU
EX:DCLU
RMV:DCLU
RST:DCLU
```

Output Message(s):

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```
STP:DCLU
```

Input Appendix(es):

```
APP:RANGES
```

STP:DCTUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the directly connected test unit common board (DCTUCOM) at the specified location be stopped.

2. FORMAT

```
STP:[a,]DCTUCOM=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the DCTUCOM). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Execute.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:DCTUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:DCTUCOM
EX:DCTUCOM
RMV:DCTUCOM
RST:DCTUCOM
```

Output Message(s):

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```
STP:DCTUCOM
```

Input Appendix(es):

```
APP:RANGES
```

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STP:DCTUPORT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the directly connected test unit port (DCTUPORT) at the specified location be stopped.

2. FORMAT

```
STP:[a,]DCTUPORT=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the DCTUPORT). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:DCTUPORT output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:DCTUPORT
EX:DCTUPORT
RMV:DCTUPORT
RST:DCTUPORT
```

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Output Message(s):

```
STP:DCTUPORT
```

Input Appendix(es):

```
APP:RANGES
```

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STP:DFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the digital facility interface (DFI) at the specified location be stopped.

2. FORMAT

```
STP:[a,]DFI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the DFI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:DFI output message.

5. REFERENCES

Input Message(s):

```
DGN:DFI
EX:DFI
RMV:DFI
RST:DFI
```

Output Message(s):

```
STP:DFI
```

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Input Appendix(es):

```
APP:RANGES
```

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STP:DFIH

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) be stopped.

2. FORMAT

```
STP:[a,]DFIH=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.
Note:	The default is the action currently executing on the DFIH.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `CONFLICT WITH UNIT STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the STP:DFIH output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
DGN:DFIH
EX:DFIH
RMV:DFIH
RST:DFIH
```

Output Message(s):

```
STP:DFIH
```

Input Appendix(es):

```
APP:RANGES
```

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STP:DFTAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that currently running actions on the distributing frame test access circuit (DFTAC) be stopped.

2. FORMAT

```
STP:[e,]DFTAC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

4. SYSTEM RESPONSE

`NG` = No good. Invalid SM number, MSU number, or service group number.

`PF` = Printout follows. Followed by the STP:DFTAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources (such as, SM not linked).

5. REFERENCES

Input Message(s):

```
DGN:DFTAC
EX:DFTAC
RMV:DFTAC
```

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```
RST:DFTAC
```

Output Message(s):

```
STP:DFTAC
```

Input Appendix(es):

```
APP:RANGES
```

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STP:DGN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the current diagnostic on the unit specified be stopped.

2. FORMAT

```
STP:DGN,a;
```

3. EXPLANATION OF MESSAGE

a = Unit to be stopped. Valid value(s):

```
AIUCOM=b-c-f
AIULC=b-c-d-g
AIULP=b-c-h
AIUTSGRP=b-c-f-i
AIURG=b-c-j
ALIT=b-c-d-e
ASC=b
BTSR=b
CDFI=b-l-c
CDI=b-c-d
CMP=m-c
DCLU=b-c-d
DCTUCOM=b-c
DCTUPORT=b-c-n
DFI=b-l-c
DFIH=b-l-c
DFTAC=b-c-d-n
DIST=b-c-d-e
DLI=b[&&o]-p
DNUSCC=b-c-q
DNUSCD=b-c-r-s
EAN=b-c
FPC=c
GDSF=b-c
GDSUCOM=b-c-d
GDXACC=b-k-d
GDXC=b-c-d-e
GDXCON=b-k-d
GRID=b-k-c
GRIDBD=b-k-c-e
HDFI=b-l-c
IDCU=b-c-d
ISLUCC=b-c-q
ISLUCD=b-c-s
ISLUHLSC=b-c-d-t
```

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ISLULBD=b-c-u-e
ISLULC=b-c-u-v
ISLULCKT=b-c-u-e-n
ISLULG=b-c-u
ISLULGC=b-c-w
ISLUMAN=b-c-d-x
ISLURG=b-c-d
ISTF=b-c
LDSF=b-c
LDSU=b-c-d
LDSUCOM=b-c-d
LI=p
LUCHAN=b-k-d-e-y
LUCHBD=b-k-d-e
LUCOMC=b-k-d
LUHLSC=b-k-d-t
MA=b-c-d-e
MAB=b-c-d-e
MCTSI=b-c
MI=p
MICU=p
MMP=m-z
MSCU=m
MSGS=m
MSUCOM=b-c-d
MTB=b-c-d-e-a[1]
MTIB=c
MTIBAX=b-c-d-e
NC=p
NLI=b-c-p
ONTC=p
ONTCCOM=p
PMU=b-c-n
PPC=c
PROTO=b-c-d
PSUCOM=b-c-d[-c[1]]
PSUPH=b-c-b[1][-c[1]]
QGP=m-d[1]
QLPS=p-d[1]
RAF=b-c
RAU=b
RCLK=b-c
RDFI=b-l-c
RLI=b-c
RRCLK=b-e[1]-d
RVPT=b-c-d-n
SAS=b-c
SCAN=b-c-d-e
SDFI=b-k-c
SFI=b-k-r-f[1]
SLIM=b-c-d-e
TAC=b-c-d
TEN=b-c-d-e-y

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```
TMS=p
TMUX=b-k-r-c
TTFCOM=b-c-d-e
TUCHBD=b-c-d-e
UCONF=b-c-d-e
UTD=b-c-d-e
UTG=b-c-d-e
```

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Ring generator number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Message switch side number.

n = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Side of the ONTC that the unit is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section

of the Input Messages manual.

r = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

u = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = MMP logical identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Shelf number.

c[1] = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully.

For CMP messages, if no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the

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appropriate abort message as a final resort if the original request is still present.

NG = No good. The request has been denied because of a conflict with current status. May also include:
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- NOT STARTED UNIT IN GROWTH STATE
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

For CMP messages, refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

OK = Good. The action will be stopped.

PF = Printout follows. Followed by the corresponding output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:CMP
ABT:ISTF
ABT:MSCU
ABT:MSGS
ABT:NLI
ABT:RAF
DGN:AIUCOM
DGN:AIULC
DGN:AIULP
DGN:AIUPIDB
DGN:AIURG
DGN:ALIT
DGN:ASC
DGN:BTSR
DGN:CDFI
DGN:CDI
DGN:CMP
DGN:DCLU
DGN:DCTUCOM
DGN:DCTUPORT
DGN:DFI
DGN:DFIH
DGN:DFTAC
DGN:DIST
DGN:DLI
DGN:DNUSCC
DGN:DNUSCD
DGN:EAN
DGN:FPC

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```
DGN:GDSF
DGN:GDSUCOM
DGN:GDXACC
DGN:GDXC
DGN:GDXCON
DGN:GRID
DGN:GRIDBD
DGN:HDFI
DGN:IDCU
DGN:ISLUCC
DGN:ISLUCD
DGN:ISLUHLSC
DGN:ISLULBD
DGN:ISLULC
DGN:ISLULCKT
DGN:ISLULG
DGN:ISLULGC
DGN:ISLUMAN
DGN:ISLURG
DGN:ISTF
DGN:LDSF
DGN:LDSU
DGN:LDSUCOM
DGN:LI
DGN:LUCHAN
DGN:LUCHBD
DGN:LUCOMC
DGN:LUHLSC
DGN:MA
DGN:MAB
DGN:MCTSI
DGN:MI
DGN:MMP
DGN:MSCU
DGN:MSGS
DGN:MSUCOM
DGN:MTB
DGN:MTIB
DGN:MTIBAX
DGN:NC
DGN:NLI
DGN:ONTC
DGN:ONTCCOM
DGN:PMU
DGN:PPC
DGN:PROTO
DGN:PSU
DGN:QGP
DGN:QLPS
DGN:RAF
DGN:RAU
DGN:RCLK
DGN:RDFI
DGN:RLI
```

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```
DGN:RRCLK
DGN:RVPT
DGN:SAS
DGN:SCAN
DGN:SDFI
DGN:SFI
DGN:SLIM
DGN:TAC
DGN:TEN
DGN:TMS
DGN:TMUX
DGN:TTFCOM
DGN:TUCHBD
DGN:UCONF
DGN:UTD
DGN:UTG
OP:DMQ
OP:DMQ-CM-SM
OP:OOS
STP:FAC
STP:QLPS
```

Output Message(s):

```
DGN:CMP
DGN:DLI
DGN:FPC
DGN:LI
DGN:MI
DGN:MMP
DGN:NC
DGN:NLI
DGN:ONTC
DGN:ONTCCOM
DGN:PPC
DGN:QGP
DGN:QLPS
DGN:TMS
OP:DMQ
OP:DMQ-CM
OP:DMQ-SM
STP:AIUCOM
STP:AIULC
STP:AIULP
STP:AIURG
STP:AIUTSGRP
STP:ALIT
STP:ASC
STP:BTSR
STP:CDFI
STP:CDI
STP:DCLU
STP:DCTUCOM
```

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```
STP:DCTUPORT
STP:DFI
STP:DFIH
STP:DFTAC
STP:DIST
STP:DNUSCC
STP:DNUSCD
STP:EAN
STP:GDSF
STP:GDSUCOM
STP:GDXACC
STP:GDXC
STP:GDXCON
STP:GRID
STP:GRIDBD
STP:HDFI
STP:IDCU
STP:ISLUCC
STP:ISLUCD
STP:ISLUHLSC
STP:ISLULBD
STP:ISLULC
STP:ISLULCKT
STP:ISLULG
STP:ISLULGC
STP:ISLUMAN
STP:ISLURG
STP:ISTF
STP:LDSF
STP:LDSU
STP:LDSUCOM
STP:LUCHAN
STP:LUCHBD
STP:LUCOMC
STP:LUHLSC
STP:MA
STP:MAB
STP:MCTSI
STP:MSUCOM
STP:MTB
STP:MTIB
STP:MTIBAX
STP:PMU
STP:PROTO
STP:PSU
STP:QLPS
STP:RAF
STP:RAU
STP:RCLK
STP:RDFI
STP:RLI
STP:RRCLK
STP:RVPT
STP:SAS
```

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```
STP:SCAN
STP:SDFI
STP:SFI
STP:SLIM
STP:TAC
STP:TEN
STP:TMUX
STP:TTFCOM
STP:TUCHBD
STP:UCONF
STP:UTD
STP:UTG
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1135/1145	MSU MA STATUS
1190	MCTSI
1200	DLI/NLI
1320,y,x	AIU SUMMARY
1321,y,x	AIU TSGRP SUMMARY
1322,y,x	AIU RG STATUS
1323,y,z,x	AIU AP STATUS
1510	DNUS STATUS
170x	ISLU NETWORK
170xy	ISLU LINE GROUP
171x	ISLU-Z
186x	IDCU CIRCUIT
	RSM RCU

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STP:DIST

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the distribute point board (DIST) at the specified location be stopped.

2. FORMAT

```
STP:[a,]DIST=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the distribute point board). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:DIST output message.

5. REFERENCES

Input Message(s):

```
DGN:DIST
EX:DIST
RMV:DIST
RST:DIST
```

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Output Message(s):

```
STP:DIST
```

Input Appendix(es):

```
APP:RANGES
```

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STP:DLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that an action on a specific dual link interface (DLI) or range of DLIs in the specified office network and timing complex (ONTC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

```
STP:[a,]DLI=b[&&c]-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is any action currently waiting or executing on the DLI). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RST`	= Restore.

Note: A remove or unconditional restore cannot be stopped once it is accepted.

`b` = Switching module (SM) number, or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ONTC side that the DLI is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

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Input Message(s):

```
DGN:DLI
EX:DLI
OP:DMQ
RST:DLI
```

Output Message(s):

```
DGN:DLI
EX:DLI
OP:DMQ-CM
RST:DLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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STP:DMQ-SM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified switching module (SM) have all deferred maintenance queue (DMQ) requests stopped.

This command will send a stop request to all processes either running or waiting that are under the control of the maintenance request administrator (MRA).

2. FORMAT

```
STP:DMQ,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. The STP:DMQ output message will follow when the request has completed.

`RL` = Retry later. The request cannot be executed because system resources are unavailable.

5. REFERENCES

Input Message(s):

`OP:DMQ`

Input Appendix(es):

`APP RANGES`

Output Message(s):

`STP:DMQ`

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STP:DMQ

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified administrative module (AM) maintenance request be stopped. The request is identified by the unit name and number and optionally the subunit name and number.

Any request handled by the maintenance input request administrator (MIRA) (restore, remove, diagnose) can be stopped by using this input message.

2. FORMAT

```
STP:DMQ:[a=b[,c=d]][,ACTIVE|,WAITING];
```

3. EXPLANATION OF MESSAGE

`ACTIVE` = Stop only active maintenance requests.

`WAITING` = Stop only waiting maintenance requests.

Note: If neither ACTIVE nor WAITING is specified, then both requests will be stopped.

`a` = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:MEM-NUM-UNIT input appendix in Appendixes section of the Input Messages manual.

`c` = Subunit name, if '`a`'='`CU`'. AM subunit names are listed in the APP:MEM-NUM-CU input appendix in the Appendixes section of the Input Messages manual.

`d` = Subunit Number. Refer to the APP:MEM-NUM-CU input appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`OK` = Good. Request accepted.

`PF` = Printout follows. Followed by the STP:DMQ output message.

5. REFERENCES

Input Message(s):

`OP:DMQ`

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```
STOP:DMQ
```

Input Appendix(es):

```
APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
```

Output Message(s):

```
OP:DMQ-SM
STP:DMQ
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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STP:DNUSCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

2. FORMAT

```
STP:[a,]DNUSCC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the DNUSCC). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:DNUSCC output messages.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:DNUSCC
RMV:DNUSCC
RST:DNUSCC
```

Output Message(s):

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```
STP:DNUSCC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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STP:DNUSCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

2. FORMAT

```
STP:[a,]DNUSCD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the DNUSCD). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:DNUSCD output messages.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:DNUSCD
RMV:DNUSCD
RST:DNUSCD
```

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Output Message(s):

`STP:DNUSCD`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1510 (DNUS STATUS)

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STP:DNUSEOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
STP:[a,] DNUSEOC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the EOC). Valid values are:

- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:DNUSEOC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RMV:DNUSEOC`
`RST:DNUSEOC`

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Output Message(s):

```
STP:DNUSEOC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1660,xxxx (DNUS REMOTE TERMINAL)

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STP:DNUSTMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped. This message is applicable for TR303 RTs (such as, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
STP:[a,]DNUSTMC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the TMC). Valid values are:

- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:DNUSTMC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:DNUSTMC
RST:DNUSTMC
```

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Output Message(s):

```
STP:DNUSTMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)

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STP:DS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on a digital signal - level 1 (DS1) be stopped.

2. FORMAT

```
STP:[a,]DS1=b-c-d-e-f-g-h;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Virtual tributary - level 1.5 (VT15) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:DS1 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
ABT:DS1
RMV:DS1
RST:DS1
```

Output Message(s):

```
STP:DS1
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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STP:DS1SFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).

2. FORMAT

```
STP:[a,]DS1SFAC=b-c-d-e-f-g-h;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the DS1SFAC). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.
`PF` = Printout follows. Followed by the STP:DS1SFAC output messages.
`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
RMV:DS1SFAC
RST:DS1SFAC
```

Output Message(s):

```
STP:DS1SFAC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)

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STP:EAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the equipment access network (EAN) at the specified location be stopped.

2. FORMAT

```
STP:[a,]EAN=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the EAN). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:EAN output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:EAN
EX:EAN
RMV:EAN
RST:EAN
```

Output Message(s):

```
STP:EAN
```

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Input Appendix(es):

```
APP:RANGES
```

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STP:EC1STE

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - Electrical Carrier Level 1 SONET Termination equipment facility (EC1STE).

2. FORMAT

```
STP:[a,]EC1STE=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the EC1STE). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:EC1STE output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:EC1STE
RST:EC1STE
```

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Output Message(s):

```
STP:EC1STE
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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STP:EX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the current exercise on the unit specified be stopped.

2. FORMAT

```
STP:EX,a;
```

3. EXPLANATION OF MESSAGE

a = Unit to be stopped. Valid value(s):

```
ALIT=b-c-d-e
ASC=b
BTSR=b
CDFI=b-l-c
CDI=b-c-d
CMP=m-c
DCLU=b-c-d
DCTUCOM=b-c
DCTUPORT=b-c-n
DFI=b-l-c
DFIH=b-l-c
DFTAC=b-c-d-n
DIST=b-c-d-e
DLI=b[&&o]-p
EAN=b-c
FPC=c
GDSF=b-c
GDSUCOM=b-c-d
GDXACC=b-k-d
GDXC=b-c-d-e
GDXCON=b-k-d
GRID=b-k-c
GRIDBD=b-k-c-e
HDFI=b-l-c
IDCU=b-c-d
ISLUCC=b-c-q
ISLUCD=b-c-s
ISLUHLSC=b-c-d-t
ISLULBD=b-c-u-e
ISLULC=b-c-u-v
ISLULCKT=b-c-u-e-n
ISLULGC=b-c-w
ISLUMAN=b-c-d-x
ISLURG=b-c-d
ISTF=b-c
```

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```
LDSF=b-c
LDSU=b-c-d
LDSUCOM=b-c-d
LI=p
LUCHAN=b-k-d-e-y
LUCOMC=b-k-d
LUHLSC=b-k-d-t
MA=b-c-d-e
MAB=b-c-d-e
MCTSI=b-c
MI=p
MICU=p
MMP=m-z
MSCU=m
MSUCOM=b-c-d
MTB=b-c-d-e-a[1]
MTIB=c
MTIBAX=b-c-d-e
NC=p
NLI=b-c-p
PMU=b-c-n
PPC=c
PROTO=b-c-d
PSUCOM=b-c-d[-c[1]]
PSUPH=b-c-b[1][-c[1]]
QGP=m-d[1]
QLPS=p-d[1]
RAF=b-c
RAU=b
RCLK=b-c
RDFI=b-l-c
RLI=b-c
RRCLK=b-e[1]-d
RVPT=b-c-d-n
SAS=b-c
SCAN=b-c-d-e
SDFI=b-k-c
SLIM=b-c-d-e
TAC=b-c-d
TEN=b-c-d-e-y
TMS=p
TTFCOM=b-c-d-e
TUCHBD=b-c-d-e
UCONF=b-c-d-e
UTD=b-c-d-e
UTG=b-c-d-e
```

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Ring generator number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Message switch side number.

`n` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Side of the ONTC that the unit is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`u` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`v` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = MMP logical identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Shelf number.

`c`[1] = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully.

For CMP messages, if no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the appropriate abort message as a final resort if the original request is still present.

`NG` = No good. The request has been denied because of a conflict with current status. May also include:

- `CONFLICT WITH UNIT STATE`
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `NOT STARTED UNIT IN GROWTH STATE`
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

For CMP messages, refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

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OK = Good. The action will be stopped.

PF = Printout follows. Followed by the corresponding output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:CMP
ABT:ISTF
ABT:MSCU
ABT:MSGS
ABT:NLI
ABT:RAF
EX:ALIT
EX:ASC
EX:BTSR
EX:CDFI
EX:CDI
EX:CMP
EX:DCLU
EX:DCTUCOM
EX:DCTUPORT
EX:DFI
EX:DFIH
EX:DFTAC
EX:DIST
EX:DLI
EX:EAN
EX:FPC
EX:GDSF
EX:GDSUCOM
EX:GDXACC
EX:GDXC
EX:GDXCON
EX:GRID
EX:GRIDBD
EX:HDFI
EX:IDCU
EX:ISLUCC
EX:ISLUCD
EX:ISLUHLSC
EX:ISLULBD
EX:ISLULC
EX:ISLULCKT
EX:ISLULGC
EX:ISLUMAN
EX:ISLURG
EX:ISTF
EX:LDSF
EX:LDSU
```

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```
EX:LDSUCOM
EX:LI
EX:LUCHAN
EX:LUCOMC
EX:LUHLSC
EX:MA
EX:MAB
EX:MCTSI
EX:MI
EX:MMP
EX:MSCU
EX:MSUCOM
EX:MTB
EX:MTIB
EX:MTIBAX
EX:NC
EX:NLI
EX:PMU
EX:PPC
EX:PROTO
EX:PSU
EX:QGP
EX:QLPS
EX:RAF
EX:RAU
EX:RCLK
EX:RDFI
EX:RLI
EX:RRCLK
EX:RVPT
EX:SAS
EX:SCAN
EX:SDFI
EX:SLIM
EX:TAC
EX:TEN
EX:TMS
EX:TTFCOM
EX:UCONF
EX:UTD
EX:UTG
OP:DMQ
OP:DMQ-CM-SM
OP:OOS
STP:FAC
STP:QLPS
```

Output Message(s):

```
EX:CMP
EX:DLI
EX:FPC
EX:LI
```

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```
EX:MI
EX:MMP
EX:NLI
EX:PPC
EX:QGP
EX:QLPS
EX:TMS
OP:DMQ
OP:DMQ-CM
OP:DMQ-SM
STP:AIUCOM
STP:AIULC
STP:AIULP
STP:AIURG
STP:AIUTSGRP
STP:ALIT
STP:ASC
STP:BTSR
STP:CDFI
STP:CDI
STP:DCLU
STP:DCTUCOM
STP:DCTUPORT
STP:DFI
STP:DFIH
STP:DFTAC
STP:DIST
STP:DNUSCC
STP:DNUSCD
STP:EAN
STP:GDSF
STP:GDSUCOM
STP:GDXACC
STP:GDXC
STP:GDXCON
STP:GRID
STP:GRIDBD
STP:HDFI
STP:IDCU
STP:ISLUCC
STP:ISLUCD
STP:ISLUHLSC
STP:ISLULBD
STP:ISLULC
STP:ISLULCKT
STP:ISLULG
STP:ISLULGC
STP:ISLUMAN
STP:ISLURG
STP:ISTF
STP:LDSF
STP:LDSU
STP:LDSUCOM
STP:LUCHAN
```

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```
STP:LUCHBD
STP:LUCOMC
STP:LUHLSC
STP:MA
STP:MAB
STP:MCTSI
STP:MSUCOM
STP:MTB
STP:MTIB
STP:MTIBAX
STP:PMU
STP:PROTO
STP:PSU
STP:QLPS
STP:RAF
STP:RAU
STP:RCLK
STP:RDFI
STP:RLI
STP:RRCLK
STP:RVPT
STP:SAS
STP:SCAN
STP:SDFI
STP:SFI
STP:SLIM
STP:TAC
STP:TEN
STP:TMUX
STP:TTFCOM
STP:TUCHBD
STP:UCONF
STP:UTD
STP:UTG
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1135/1145 MSU MA STATUS
1190 MCTSI
1200 DLI/NLI
1320,y,x AIU SUMMARY
1321,y,x AIU TSGRP SUMMARY

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1322,y,x	AIU RG STATUS
1323,y,z,x	AIU AP STATUS
1510	DNUS STATUS
170x	ISLU NETWORK
170xy	ISLU LINE GROUP
171x	ISLU-Z
186x	IDCU CIRCUIT
	RSM RCU

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STP:EXC-ANY

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that any process be stopped. The process can be killed either by specifying the ID number or the pathname.

2. FORMAT

```
STP:EXC,ANY,{PID=a|FN="b"},UCL;
```

3. EXPLANATION OF MESSAGE

`a` = ID number of the process to be terminated.

Note: If a nonexistent process ID is used, the system prints a COMPLETED message.

`b` = Pathname of the file.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an STP:EXC-ANY output message.

5. REFERENCES

Input Message(s):

```
OP:ST-PROC
STOP:EXC-ANY
STP:EXC-USER
```

Output Message(s):

```
OP:ST-PROC
```

MCC Display Page(s):

01 (CRAFT FM)

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STP:EXC-UPD

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Stops current execution of the software update (SU) installation process. This input message may be used to stop an SU installation that was started using the Master Control Center (MCC) 1960 page or the MCC 1940 page.

2. FORMAT

```
STP:EXC:UPD;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = The message was accepted and the action completed.

5. REFERENCES

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1940 (EASY BWM INSTALLATION)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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STP:EXC-USER

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a user process specified either by ID number or by pathname be stopped.

WARNING: Use of this input message to stop a monitored process will prevent it from being restarted automatically. The INIT:ULARP input message can be used to restart ULARP and processes monitored by ULARP.

2. FORMAT

```
STP:EXC,USER,{PID=a|FN="b"}[,SIG=c];
```

3. EXPLANATION OF MESSAGE

`a` = ID number of the process to be terminated.

`b` = Pathname of the process to be terminated.

`c` = Signals (default is 15 if PID is used and 9 if FN is used). Valid value(s):

`1`	= Hang up.
`2`	= Interrupt.
`3`	= Quit.
`4`	= Illegal instruction" or = not reset when caught.
`5`	= Trace trap" or = not reset when caught.
`6`	= IOT instruction.
`7`	= EMT instruction.
`8`	= Floating point exception.
`9`	= Kill" or = cannot be caught or ignored.
`10`	= Bus error.
`11`	= Segmentation violation.
`12`	= Bad argument to system call.
`13`	= Write on a pipe with no one to read it.
`14`	= Alarm clock.
`15`	= Software termination signal.

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4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
INIT:ULARP
OP:ST-PROC
STP:EXC-ANY
```

Output Message(s):

```
OP:ST-PROC
```

MCC Display Page(s):

01 (CRAFT FM)

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STP:FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a remote switching module (RSM) facility (FAC) or a trunk FAC.

An RSM FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. A trunk FAC is an inter-office trunk.

2. FORMAT

```
STP:[a,]FAC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the FAC). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.
- `TST` = Test.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = RSM digital facilities interface (RDFI), inter-RSM communication link digital facilities interface (CDFI), or inter-office trunk digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Facility (FAC) number. The FAC number is the T1 facility number on a RDFI, CDFI, or DFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the STP:FAC output message.

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`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:FAC
RST:FAC
TST:FAC
```

Output Message(s):

```
STP:FAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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STP:FACR

Software Release: 5E15 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that a running feature activation counting and reconciliation (FACR) audit be terminated.

2. FORMAT

```
STP:FACR:[SUSPEND],[APPL=a];
```

3. EXPLANATION OF MESSAGE

`SUSPEND` = Request for a currently running FACR audit to be suspended and rescheduled for the next day.

`APPL` = Request refers to a FACR special application audit.

`a` = APPLICATION name of special audit to stop/suspend.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the STP:FACR output message.

5. REFERENCES

Output Message(s):

```
STP:FACR
```

Other Manual(s):
235-040-100 *OA&M Planning Guide*
235-100-125 *System Description*

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STP:FPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the specified foundation peripheral controller (FPC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (that is, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

```
STP:a,FPC=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is any action currently waiting or executing on the FPC). Valid value(s):

- `DGN` = Diagnose. (Not valid for CM3)
- `EX` = Exercise. (Not valid for CM3)
- `RST` = Restore.

`b` = FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:FPC
EX:FPC
OP:DMQ
RST:FPC
```

Output Message(s):

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```
DGN:FPC
EX:FPC
OP:DMQ-CM
RST:FPC
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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STP:GDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the global digital services function (GDSF) circuit be stopped.

2. FORMAT

```
STP:[a,]GDSF=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the GDSF). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:GDSF output message.

5. REFERENCES

Input Message(s):

```
DGN:GDSF
EX:GDSF
RMV:GDSF
RST:GDSF
```

Output Message(s):

```
STP:GDSF
```

Input Appendix(es):

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APP:RANGES

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STP:GDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the global digital service unit common (GDSUCOM) board at the specified location be stopped.

2. FORMAT

```
STP:[a,]GDSUCOM=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the GDSUCOM board). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:GDSUCOM output message.

5. REFERENCES

Input Message(s):

```
DGN:GDSUCOM
EX:GDSUCOM
RMV:GDSUCOM
RST:GDSUCOM
```

Output Message(s):

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```
STP:GDSUCOM
```

Input Appendix(es):

```
APP:RANGES
```

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STP:GDXACC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions be stopped on the gated diode crosspoint access (GDXACC) at the specified location.

2. FORMAT

```
STP:[a,]GDXACC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the GDXACC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:GDXACC output message.

5. REFERENCES

Input Message(s):

```
DGN:GDXACC
EX:GDXACC
RMV:GDXACC
RST:GDXACC
```

Output Message(s):

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```
STP:GDXACC
```

Input Appendix(es):

```
APP:RANGES
```

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STP:GDXC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions be stopped on the gated diode crosspoint compensator (GDXC) at the specified location.

2. FORMAT

```
STP:[a,]GDXC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the GDXC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = MSU board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:GDXC output message.

5. REFERENCES

Input Message(s):

```
DGN:GDXC
EX:GDXC
RMV:GDXC
RST:GDXC
```

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Output Message(s):

```
STP:GDXC
```

Input Appendix(es):

```
APP:RANGES
```

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STP:GDXCON

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions be stopped on the gated diode crosspoint control (GDXCON) at the specified location.

2. FORMAT

```
STP:[a,]GDXCON=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the GDXCON). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:GDXCON output message.

5. REFERENCES

Input Message(s):

```
DGN:GDXCON
EX:GDXCON
RMV:GDXCON
RST:GDXCON
```

Output Message(s):

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```
STP:GDXCON
```

Input Appendix(es):

```
APP:RANGES
```

STP:GEN

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administrative module (AM) system-update message in progress be stopped. Terminates the process associated with a previous UPD:GEN input message.

2. FORMAT

```
STP:GEN[:UCL];
```

3. EXPLANATION OF MESSAGE

UCL = Execute unconditionally. If the process cannot be terminated using termination or kill signals, it will be terminated by a more extreme method. In this case, some system resources in use by the process may not be released automatically.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.

PF = Printout follows. Followed by STP:GEN output message.

5. REFERENCES

Input Message(s):

```
STOP:GEN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
```

Output Message(s):

```
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

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STP:GRC

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the execution of the current global recent change (GRC) job be suspended. This input message stops the processing GRC job gracefully. The EXC:GRC input message continues job execution.

2. FORMAT

```
STP:GRC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the GRC:STATUS output message indicating that the job was successfully halted.

`NG` = No good. The request was denied. A GRC:ERROR output message will provide the reason for the failure.

5. REFERENCES

Input Message(s):

```
STP:GRC
CLR:GRC
EXC:GRC
SCHED:GRC
```

Output Message(s):

```
GRC:ERROR
REPT:GRC
GRC:STATUS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-070-100 *Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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STP:GRID

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions stop on the gated diode crosspoint (GDX) grid at the specified location.

2. FORMAT

```
STP:[a,]GRID=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the GDX grid). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.
- `TST` = Test.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:GRID output message.

5. REFERENCES

Input Message(s):

```
DGN:GRID
EX:GRID
RMV:GRID
RST:GRID
TST:GRID
```

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Output Message(s):

```
STP:GRID
```

Input Appendix(es):

```
APP:RANGES
```

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STP:GRIDBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that currently running actions on a line unit model 2; (LU2) or line unit model 3; (LU3) grid board be stopped.

2. FORMAT

```
STP:[a,]GRIDBD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the GRIDBD). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.
`TST`	= Test.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:GRIDBD output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
DGN:GRIDBD
EX:GRIDBD
RMV:GRIDBD
RST:GRIDBD
TST:GRIDBD
```

Output Message(s):

```
STP:GRIDBD
```

Input Appendix(es):

```
APP:RANGES
```

STP:HDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on the host switching module (HSM) digital facilities interface (HDFI) circuit be stopped.

2. FORMAT

```
STP:[a,]HDFI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the HDFI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If the action being stopped is a conditional removal of an HDFI, there is a corresponding conditional removal of the T1 facility (T1FAC) in the remote switching module (RSM) being processed. Manually stop the T1FAC action in the RSM if desired.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:HDFI output message.

5. REFERENCES

Input Message(s):

```
DGN:HDFI
EX:HDFI
```

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```
RMV:HDFI
RST:HDFI
STP:FAC
```

Output Message(s):

```
STP:HDFI
```

Input Appendix(es):

```
APP:RANGES
```

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STP:IDCU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on an integrated digital carrier unit (IDCU) service group circuit be stopped.

2. FORMAT

```
STP:[a,]IDCU=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the IDCU). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. An STP:IDCU output message will follow.

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:IDCU
EX:IDCU
OP:DMQ
OP:OOS
RMV:IDCU
RST:IDCU
```

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Output Message(s):

```
STP:IDCU
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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STP:IDCUELI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be stopped.

Note: The use of this input message during an ELI removal may require manual restorations of individual IDCU facilities (IFACs) associated with the ELI.

2. FORMAT

```
STP:[a,]IDCUELI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the IDCU ELI). Valid value(s):
`RMV` = Remove.
`RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:IDCUELI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:OOS
RMV:IDCUELI
```

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```
RST:IDCUELI
```

Output Message(s):

```
STP:IDCUELI
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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STP:IDCUEOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

2. FORMAT

```
STP:[a,] IDCUEOC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the EOC). Valid values are:

- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:IDCUEOC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RMV:IDCUEOC`
`RST:IDCUEOC`

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Output Message(s):

```
STP:IDCUEOC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)

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STP:IDCUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be stopped.

2. FORMAT

```
STP:[a,]IDCUPIDB=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the IDCU PIDB or DPIDB). Valid value(s):
`RMV` = Remove.
`RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PIDB or DPIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:IDCUPIDB output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:OOS
RMV:IDCUPIDB
RST:IDCUPIDB
```

Output Message(s):

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```
STP:IDCUPIDB
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-331 *Hardware Change Procedures*

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STP:IDCUTMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped. This message is applicable for TR303 RTs (such as, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

2. FORMAT

```
STP:[a,]IDCUTMC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the TMC). Valid values are:

`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:IDCUTMC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`RMV:IDCUTMC`

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```
RST:IDCUTMC
```

Output Message(s):

```
STP:IDCUTMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)

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STP:IFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that action on an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be stopped.

2. FORMAT

```
STP:[a,]IFAC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the IFAC). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:IFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:OOS
RMV:IFAC
RST:IFAC
```

Output Message(s):

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```
STP:IFAC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)

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STP:IPCFG

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the processing and output of the IP address and subnet mask information request, OP:IPCFG, be stopped. This request stops the output of segment blocks of an OP:IPCFG input message that have not yet been queued for printing and any further data collection and processing. This request does not stop the output of segment blocks already queued for printing at the time that this stop request is processed.

2. FORMAT

```
STP:IPCFG;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted and the task is in the process of being stopped. The output message STP:IPCFG from the stopped task follows, or the output message STP:IPCFG as a general, non-specific task output message follows.

5. REFERENCES

Input Message(s):

```
OP:IPCFG
```

Output Message(s):

```
OP:IPCFG
STP:IPCFG
```

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STP:ISLUCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an integrated services line unit common controller (ISLUCC).

2. FORMAT

```
STP:[a,]ISLUCC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the ISLUCC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLUCC output message.

5. REFERENCES

Input Message(s):

```
DGN:ISLUCC
EX:ISLUCC
OP:DMQ
OP:OOS
RMV:ISLUCC
RST:ISLUCC
```

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Output Message(s):

```
STP:ISLUCC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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STP:ISLUCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an integrated services line unit common data (ISLUCD).

2. FORMAT

```
STP:[a,]ISLUCD=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the ISLUCD). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLUCD output message.

5. REFERENCES

Input Message(s):

```
DGN:ISLUCD
EX:ISLUCD
OP:DMQ
OP:OOS
RMV:ISLUCD
RST:ISLUCD
```

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Output Message(s):

```
STP:ISLUCD
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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STP:ISLUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified action on the integrated services line unit high level service circuit (ISLUHLSC) be stopped. The circuit will be placed in the out of service (OOS) state upon completion.

2. FORMAT

```
STP:[a,]ISLUHLSC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped:

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

Note: The default is the action currently executing in the ISLUHLSC.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`d` = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

`e` = High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLUHLSC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
DGN:ISLUHLSC
EX:ISLUHLSC
RMV:ISLUHLSC
RST:ISLUHLSC
```

Output Message(s):

```
STP:ISLUHLSC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
171x (ISLU-Z)

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STP:ISLULBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an integrated services line unit line board (ISLULBD).

2. FORMAT

```
STP:[a,]ISLULBD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the ISLULBD). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLULBD output message.

5. REFERENCES

Input Message(s):

```
DGN:ISLULBD
EX:ISLULBD
RMV:ISLULBD
RST:ISLULBD
```

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Output Message(s):

```
STP:ISLULBD
```

Input Appendix(es):

```
APP:RANGES
```

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STP:ISLULC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an integrated services line unit line card (ISLULC).

2. FORMAT

```
STP:[a,]ISLULC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the ISLULC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLULC output message.

5. REFERENCES

Input Message(s):

```
DGN:ISLULC
EX:ISLULC
OP:DMQ
OP:OOS
RMV:ISLULC
```

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```
RST:ISLULC
```

Output Message(s):

```
STP:ISLULC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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STP:ISLULCKT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an integrated services line unit line circuit (ISLULCKT).

2. FORMAT

```
STP:[a,]ISLULCKT=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the ISLULCKT). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLULCKT output message.

5. REFERENCES

Input Message(s):

```
DGN:ISLULCKT
EX:ISLULCKT
```

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```
RMV:ISLULCKT
RST:ISLULCKT
```

Output Message(s):

```
STP:ISLULCKT
```

Input Appendix(es):

```
APP:RANGES
```

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STP:ISLULG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an integrated services line unit line group (ISLULG).

2. FORMAT

```
STP:[a,]ISLULG=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the ISLULG). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLULG output message.

5. REFERENCES

Input Message(s):

```
DGN:ISLULG
RMV:ISLULG
RST:ISLULG
```

Output Message(s):

```
STP:ISLULG
```

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Input Appendix(es):

APP:RANGES

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STP:ISLULGC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an integrated services line unit line group controller (ISLULGC).

2. FORMAT

```
STP:[a,]ISLULGC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the ISLULGC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLULGC output message.

5. REFERENCES

Input Message(s):

```
DGN:ISLULGC
EX:ISLULGC
OP:DMQ
OP:OOS
RMV:ISLULGC
RST:ISLULGC
```

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Output Message(s):

```
STP:ISLULGC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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STP:ISLUMAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that specified action on the integrated services line unit metallic access network (ISLUMAN) be stopped. Circuit will remain out of service (OOS) at completion.

2. FORMAT

```
STP:[a,]ISLUMAN=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

Note: The default is the action currently executing on the ISLUMAN.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLUMAN output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
DGN:ISLUMAN
EX:ISLUMAN
RMV:ISLUMAN
RST:ISLUMAN
```

Output Message(s):

```
STP:ISLUMAN
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
171x (ISLU-Z)

Copyright ©2007 Lucent Technologies

STP:ISLUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that removes and restores on an integrated services line unit (ISLU) peripheral interface data bus (PIDB) pair (both service groups) be stopped.

Note: This message should only be used when it is necessary to stop the remove phase of an ISLUPIDB degrowth procedure or the restore phase of an ISLUPIDB growth procedure.

2. FORMAT

```
STP:[a,]ISLUPIDB=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

`RMV` = Remove.

`RST` = Restore.

Note: The default is the action currently executing on the ISLU.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:ISLUPIDB output message.

5. REFERENCES

Input Message(s):

```
OP:OOS
RMV:ISLUPIDB
RST:ISLUPIDB
```

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Input Appendix(es):

APP:RANGES

Copyright ©2007 Lucent Technologies

STP:ISLURG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified action on the integrated services line unit ringing generator (ISLURG) be stopped. The circuit will be placed in the out of service (OOS) state upon completion.

2. FORMAT

```
STP:[a,]ISLURG=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

Note: The default is the action currently executing on the ISLURG.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = ISLU service group RG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with the current status.

`PF` = Printout follows. Followed by an STP:ISLURG output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:ISLURG
EX:ISLURG
```

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```
RMV:ISLURG
RST:ISLURG
```

Output Message(s):

```
STP:ISLURG
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

170x (ISLU NETWORK)
171x (ISLU-Z)

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STP:ISMNAIL

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Stops the output of the inter-SM (switching module) nailup (ISMNAIL) list or off-normal request, gracefully. The ISMNAIL list request is printed when an OP:LIST-ISMNAIL input message is processed and the ISMNAIL off-normal request is printed when an OP:OFFNORM-IS input message is processed.

2. FORMAT

```
STP:ISMNAIL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Either the list or off-normal request will be stopped with an indication stating such, or an STP:ISMNAIL output message will print detailing why the list or off-normal request was not stopped.

5. REFERENCES

Input Message(s):

```
OP:LIST-ISMNAIL
OP:OFFNORM-IS
```

Output Message(s):

```
OP:LIST-ISMNAIL
OP:OFFNORM-IS
STP:ISMNAIL
```

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STP:ISTF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified actions on the integrated services test function (ISTF) unit be stopped.

2. FORMAT

```
STP:[a,]ISTF=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

Note: The default is the action currently executing on the ISTF.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:

- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by an STP:ISTF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

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```
ABT:ISTF
DGN:ISTF
EX:ISTF
RMV:ISTF
RST:ISTF
```

Output Message(s):

```
STP:ISTF
```

Input Appendix(es):

```
APP:RANGES
```

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STP:IWGFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an inter-working gateway facility (IWGFAC).

2. FORMAT

```
STP:IWGFAC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:IWGFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RST:IWGFAC
RMV:IWGFAC
```

Output Message(s):

```
STP:IWGFAC
```

Input Appendix(es):

```
APP:RANGES
```

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MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

Copyright ©2007 Lucent Technologies

STP:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an inter-working gateway link interface (IWGLI).

2. FORMAT

```
STP:IWGLI=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Inter-working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:IWGLI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`DGN:IWGLI`

Output Message(s):

`STP:IWGLI`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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STP:IWUFAC

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an inter-working unit facility (IWUFAC).

2. FORMAT

```
STP:IWUFAC=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:IWUFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RST:IWUFAC
RMV:IWUFAC
```

Output Message(s):

```
STP:IWUFAC
```

Input Appendix(es):

```
APP:RANGES
```

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MCC Display Page(s):

1340,y (IWU)

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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STP:LDSF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the local digital service function (LDSF) circuit be stopped.

2. FORMAT

```
STP:[a,]LDSF=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the LDSF). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:LDSF output message.

5. REFERENCES

Input Message(s):

```
DGN:LDSF
EX:LDSF
RMV:LDSF
RST:LDSF
```

Output Message(s):

```
STP:LDSF
```

Input Appendix(es):

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APP:RANGES

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STP:LDSU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the local digital service unit - model 2 (LDSU2) board be stopped.

2. FORMAT

```
STP:[a,]LDSU=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the LDSU2). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:LDSU output message.

5. REFERENCES

Input Message(s):

```
DGN:LDSU
EX:LDSU
RMV:LDSU
RST:LDSU
```

Output Message(s):

```
STP:LDSU
```

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Input Appendix(es):

```
APP:RANGES
```

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STP:LDSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the local digital service unit common board (LDSUCOM) at the specified location be stopped.

2. FORMAT

```
STP:[a,]LDSUCOM=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the LDSUCOM). Valid value(s):

`DGN`	= Diagnose.
`EX`	= Exercise.
`RMV`	= Remove.
`RST`	= Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Local DSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:LDSUCOM output message.

5. REFERENCES

Input Message(s):

```
DGN:LDSUCOM
EX:LDSUCOM
RMV:LDSUCOM
RST:LDSUCOM
```

Output Message(s):

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```
STP:LDSUCOM
```

Input Appendix(es):

```
APP:RANGES
```

STP:LI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a diagnostic or exercise on the link interface (LI) on the specified office network and timing complex (ONTC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a valid state. An abort action is immediate and the state of the hardware is not guaranteed.

Note: This message is only valid for offices with communication module model 1 (CM1) hardware.

2. FORMAT

```
STP:[a,]LI=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is any action currently waiting or executing on the LI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.

`b` = Side of ONTC that the LI is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:LI
EX:LI
OP:DMQ
```

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Output Message(s):

```
DGN:LI
EX:LI
OP:DMQ-CM
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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STP:LIB

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Requests that the previously started library program be stopped in the administrative module (AM) and/or switching modules (SMs) specified. If no AM or SM(s) is specified, the AM and all SMs currently running under the specified team will receive the message.

2. FORMAT

```
STP:LIB:TEAM=a[,AM][{,SM=b[-b][-b][-b][-b]|c&&d}];
```

3. EXPLANATION OF MESSAGE

`AM` = Send the message to the library program running in the AM under this team.

`a` = The team number (1-15) to which this message applies. This number is specified in the LOAD:LIB message, and is used so that more than one person may test at the same time, using different team numbers.

`b` = SM(s) to which this message should be directed. The team specified must have a library program running in the SM(s) listed. There can be up to 5 SM numbers listed. A range could be used instead, as indicated. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If neither the AM nor any SMs are specified, the STP:LIB message is sent to the AM and all SMs with clients loaded under the same team as that specified.

4. SYSTEM RESPONSE

`NG` = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

`PF` = Printout follows. Message has been sent to the SMs/AM or team specified.

5. REFERENCES

Output Message(s):

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```
STP:LIB
```

Input Appendix(es):

```
APP:RANGES
```

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STP:LIST

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a graceful stop of the currently printing port list. Port lists are printed when an OP:LIST input message is processed.

2. FORMAT

```
STP:LIST;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the STP:LIST output message.

`RL` = Retry later. The request has been denied, most probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:LIST
```

Output Message(s):

```
OP:LIST-DATALIN
OP:LIST-LINES
OP:LIST-OSPSPOR
OP:LIST-TRUNK
STP:LIST
```

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STP:LISTOTO

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that active printing tasks initiated by the OP:LISTOTO input message be stopped. These requests are processed in first-in-first-out order (the first printing task requested is the first one stopped).

2. FORMAT

```
STP:LISTOTO;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `OP LISTOTO NOT IP` = The request has been denied; no printing tasks currently in progress (IP).

`PF` = Printout follows. The message has been accepted and the oldest OP:LISTOTO printing task will be stopped. Followed by the OP:LISTOTO output message.

5. REFERENCES

Input Message(s):

`OP:LISTOTO`

Output Message(s):

`OP:LISTOTO`

Other Manual(s):
235-105-200 *Precutover and Cutover Procedures*

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STP:LIT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a graceful termination of a line insulation testing (LIT) session.

2. FORMAT

```
STP:LIT[:OPT=a];
```

3. EXPLANATION OF MESSAGE

`a` = Type of LIT session to be terminated. Valid value(s):

- `Q` = Automatic LIT scheduled through RCV or requested manually by using the EXC:LIT input message.
- `S` = Manually requested (demand) LIT initiated only by using the EXC:LIT input message.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized. May also include:

- `AUTOMATIC LIT NOT ACTIVE` = No ALIT session is in progress.
- `DEMAND LIT NOT ACTIVE` = No DLIT session is in progress.

`PF` = Printout follows. May also include:

- `STOP ACTION INITIATED` = Followed by an STP:LIT-COMPL output message.

`RL` = Retry later. May also include:

- `AM IN MIN MODE` = The message was denied because the administrative module is in minimum (min) mode.
- `RESOURCE SHORTAGE` = Request denied due to insufficient resources.
- `SYSTEM PROBLEM` = Request denied due to a system problem other than a resource shortage.

5. REFERENCES

Input Message(s):

```
EXC:LIT
OP:LIT
OP:LIT-SM
```

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Output Message(s):

```
EXC:LIT
OP:LIT
STP:LIT-COMPL
```

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STP:LUCHAN

Software Release: 5E15 and later
Command Group: SM
Application: 5,5EXP
Type: Input

1. PURPOSE

Requests that actions on the line unit channel (LUCHAN) at the specified location be stopped.

2. FORMAT

```
STP:[a,]LUCHAN=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the LUCHAN). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:LUCHAN output message.

5. REFERENCES

Input Message(s):

`DGN:LUCHAN`
`EX:LUCHAN`

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```
RMV:LUCHAN
RST:LUCHAN
```

Output Message(s):

```
STP:LUCHAN
```

Input Appendix(es):

```
APP:RANGES
```

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STP:LUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the line unit channel board (LUCHBD) at the specified location be stopped.

2. FORMAT

```
STP:[a,]LUCHBD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the LUCHBD). Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:LUCHBD output message.

5. REFERENCES

Input Message(s):

```
DGN:LUCHBD
RMV:LUCHBD
RST:LUCHBD
```

Output Message(s):

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```
STP:LUCHBD
```

Input Appendix(es):

```
APP:RANGES
```

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STP:LUCOMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the line unit common control (LUCOMC) at the specified location be stopped.

2. FORMAT

```
STP:[a,]LUCOMC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the LUCOMC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:LUCOMC output message.

5. REFERENCES

Input Message(s):

```
DGN:LUCOMC
EX:LUCOMC
RMV:LUCOMC
RST:LUCOMC
```

Output Message(s):

Copyright ©2007 Lucent Technologies

```
STP:LUCOMC
```

Input Appendix(es):

```
APP:RANGES
```

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STP:LUHLSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the line unit high level service circuit (LUHLSC) at the specified location be stopped.

2. FORMAT

```
STP:[a,]LUHLSC=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the LUHLSC). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:LUHLSC output message.

5. REFERENCES

Input Message(s):

```
DGN:LUHLSC
EX:LUHLSC
RMV:LUHLSC
RST:LUHLSC
```

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Output Message(s):

```
STP:LUHLSC
```

Input Appendix(es):

```
APP:RANGES
```

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STP:MA

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the metallic access (MA) board at the specified location be stopped.

2. FORMAT

```
STP:[a,]MA=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the MA board). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:MA output message.

5. REFERENCES

Input Message(s):

```
DGN:MA
EX:MA
RMV:MA
RST:MA
```

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Output Message(s):

```
STP:MA
```

Input Appendix(es):

```
APP:RANGES
```

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STP:MAB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the metallic access bus (MAB) at the specified location be stopped.

2. FORMAT

```
STP:[a,]MAB=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the MAB). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:MAB output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:MAB
EX:MAB
RMV:MAB
```

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```
RST:MAB
```

Output Message(s):

```
STP:MAB
```

Input Appendix(es):

```
APP:RANGES
```

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STP:MCTSI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the module controller/time slot interchange (MCTSI) at the specified location be stopped.

2. FORMAT

```
STP:[a,]MCTSI=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the MCTSI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Module control unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:MCTSI output message.

5. REFERENCES

Input Message(s):

```
DGN:MCTSI
EX:MCTSI
RMV:MCTSI
RST:MCTSI
```

Output Message(s):

```
STP:MCTSI
```

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Input Appendix(es):

```
APP:RANGES
```

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STP:MEMSIZE

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests termination of the OP:MEMSIZE input message.

2. FORMAT

```
STP:MEMSIZE;
```

3. EXPLANATION OF MESSAGE

No parameters.

4. SYSTEM RESPONSE

`OK` = Job is stopped or no job was running.

5. REFERENCES

Input Message(s):

```
OP:MEMSIZE
```

Output Message(s):

```
OP:MEMSIZE
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-070-100 *Switch Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-600-400 *Audits*

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STP:MICU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a diagnostic or exercise on the message interface and clock unit (MICU) subunit of the office network and timing complex (ONTC) be stopped.

2. FORMAT

```
STP:[a,]MICU=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the MICU). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.

`b` = Side of the ONTC that the MICU is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message was correct but the request conflicts with current status.

`OK` = Good. The action will be stopped.

5. REFERENCES

Input Message(s):

`OP:DMQ`

Output Message(s):

`OP:DMQ`
`OP:DMQ-CM`
`OP:DMQ-SM`

Input Appendix(es):

`APP:RANGES`

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STP:MMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the specified module message processor (MMP) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

```
STP:a,MMP=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is any action currently waiting or executing on the MMP). Valid value(s):

`DGN`	= Diagnose. (Not valid for CM3)
`EX`	= Exercise. (Not valid for CM3)
`RST`	= Restore.

`b` = Message switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = MMP logical identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:MMP
EX:MMP
OP:DMQ
RST:MMP
```

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Output Message(s):

```
DGN:MMP
EX:MMP
OP:DMQ-CM
RST:MMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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STP:MSCU

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that specific actions on the specified message switch control unit (MSCU) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a diagnostic segment), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

```
STP:[a,]MSCU=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

`DGN`	= Diagnose. (Not valid for CM3)
`EX`	= Exercise. (Not valid for CM3)
`RMV`	= Remove.
`RST`	= Restore.

Note: The default is all actions currently waiting or executing on the MSCU.

`b` = Message switch side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully. If no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message. Consider using the abort (ABT) message, ABT:MSCU, as a final resort, if the original request is still present.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

`ABT:MSCU`

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```
DGN:MSCU
EX:MSCU
OP:DMQ-CM-SM
RMV:MSCU
RST:MSCU
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

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STP:MSGS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that specific actions on the specified message switch (MSGS) complex be stopped.

2. FORMAT

```
STP:[a,]MSGS=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

NOTE: The default is all actions currently waiting or executing on the MSGS.

`b` = Message switch side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully. If no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message. Consider using the abort (ABT) message, ABT:MSGS, as a final resort, if the original request is still present.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
ABT:MSGS
DGN:MSGS
OP:DMQ-CM-SM
RMV:MSGS
RST:MSGS
```

Input Appendix(es):

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```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

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STP:MSUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the metallic service unit common (MSUCOM) board at the specified location be stopped.

2. FORMAT

```
STP:[a,]MSUCOM=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the MSUCOM board). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:MSUCOM output message.

5. REFERENCES

Input Message(s):

```
DGN:MSUCOM
EX:MSUCOM
RMV:MSUCOM
RST:MSUCOM
```

Output Message(s):

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```
STP:MSUCOM
RMV:MSUCOM
RST:MSUCOM
```

Input Appendix(es):

```
APP:RANGES
```

STP:MTB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the metallic access test bus (MTB) at the specified location be stopped.

2. FORMAT

```
STP:[a,]MTB=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the MTB). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:MTB output message.

5. REFERENCES

Input Message(s):

```
DGN:MTB
EX:MTB
```

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```
RMV:MTB
RST:MTB
```

Output Message(s):

```
STP:MTB
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1135/1145 (MSU MA STATUS)

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STP:MTIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the metallic test interconnect bus (MTIB) at the specified location be stopped.

2. FORMAT

```
STP:[a,]MTIB=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the MTIB). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:MTIB output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:MTIB
EX:MTIB
RMV:MTIB
RST:MTIB
```

Output Message(s):

```
STP:MTIB
```

Input Appendix(es):

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APP:RANGES

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STP:MTIBAX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the metallic test interconnect bus access (MTIBAX) at the specified location be stopped.

2. FORMAT

```
STP:[a,]MTIBAX=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the MTIBAX). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:MTIBAX output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`DGN:MTIBAX`

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```
EX:MTIBAX
RMV:MTIBAX
RST:MTIBAX
```

Output Message(s):

```
STP:MTIBAX
```

Input Appendix(es):

```
APP:RANGES
```

STP:NIPMP

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a non-interfering pump for the specified switching module (SM) be canceled.

2. FORMAT

```
STP:NIPMP,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request not initiated due to bad syntax or invalid SM specified.

`PF` = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

`ST:NIPMP`

Output Message(s):

`REPT:NIPMP`

Input Appendix(es):

`APP:RANGES`

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STP:NLI

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that an action be stopped on a specific network link interface (NLI).

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and attempts to leave the hardware in a correct state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

```
STP:[a,]NLI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is any action currently waiting or executing on the NLI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RST` = Restore.

NOTE: A remove or unconditional restore cannot be stopped once it is accepted.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message is printed for the original request when the stop has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

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```
ABT:NLI
DGN:NLI
EX:NLI
OP:DMQ-CM-SM
RST:NLI
```

Output Message(s):

```
DGN:NLI
EX:NLI
OP:DMQ-CM
OP:DMQ-SM
RST:NLI
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)

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STP:NMOP

Software Release: 5E15 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that further output from a previously requested network management OP input message be stopped. This message can stop: OP:CGAP, OP:DOC, OP:SILC, OP:SSTR, OP:TGC, OP:TR, OP:NMNODES, OP:NMSCH input messages, or the OP:M5 input message with the `PKG=TGFLAG`, or the `PKG=TGMEAS` options.

2. FORMAT

```
STP:NMOP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO REPORT TO STOP` = The request could not be processed because there is no report to stop.

`OK` = Good. Stop request initiated. Message will stop printing.

`RL` = Retry later. May also include:
- `RESOURCE SHORTAGE` = The necessary resources are not available.

5. REFERENCES

Input Message(s):

```
OP:CGAP
OP:DOC
OP:M5
OP:NMNODES
OP:NMSCH
OP:SILC
OP:SSTR
OP:TGC
OP:TR
```

Other Manual(s):
235-190-120 *Local and Toll System Features*

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MCC Display Page(s):

130 (NM EXCEPTION)

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STP:NPH

Software Release: 5E20(1) and later
Command Group: NPH
Application: 5
Type: Input

1. PURPOSE

Requests that the currently printing user datagram port (UDP) connections information list be stopped. UDP connections information lists are printed in response to an OP:NPH input message. If this input message is successful, the list will stop printing. If this input message is not successful, an STP:NPH output message will print.

2. FORMAT

```
STP:NPH;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the STP:NPH output message.

5. REFERENCES

Input Message(s):

```
OP:NPH
```

Output Message(s):

```
OP:NPH
STP:NPH
```

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STP:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on an optical carrier - level 3 (OC3) be stopped.

2. FORMAT

```
STP:[a,]OC3=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:OC3 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:OC3
RMV:OC3
```

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```
RST:OC3
```

Output Message(s):

```
STP:OC3
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3 STATUS

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STP:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on an optical carrier - level 3 concatenated (OC3C) facility be stopped.

2. FORMAT

```
STP:[a,]OC3C=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:OC3C output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ABT:OC3C`
`RMV:OC3C`

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```
RST:OC3C
```

Output Message(s):

```
STP:OC3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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STP:ODDEVOL

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the office dependent data (ODD) evolution or double logging process be stopped. All files containing recent changes (RCs) or customer-originated recent changes (CORCs) that were saved during the ODD evolution or double logging will be removed.

WARNING: This message should be used only when backing out of a software release retrofit or large terminal growth.

2. FORMAT

```
STP:ODDEVOL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by an STP:ODDEVOL output message.

5. REFERENCES

Input Message(s):

```
BKUP:ODD
```

Output Message(s):

```
STP:ODDEVOL
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x *Software Release Retrofit*
235-105-44x *Large Terminal Growth*

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STP:OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on an optical facility interface (OFI) be stopped.

2. FORMAT

```
STP:[a,]OFI=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is the currently executing action). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:OFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:OFI
DGN:OFI
RMV:OFI
RST:OFI
```

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Output Message(s):

```
STP:OFI
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):
1490 OIU STATUS

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STP:OFR

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that any office records print message be stopped.

2. FORMAT

```
STP:OFR:REQID=a;
```

3. EXPLANATION OF MESSAGE

`a` = Request identification number of print request, as given in the OP:OFR-CAT or OP:OFR-FORM output messages.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
ABT:OFR
IN:OFR-PARM
OP:OFR-CAT
OP:OFR-FORM
OP:OFR-STATUS
```

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STP:ONTCCOM

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that an action on the specified office network and timing complex common unit (ONTCCOM) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

```
STP:[a,]ONTCCOM=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. The default is any action currently waiting or executing on the ONTCCOM. Valid value(s):

- `DGN` = Diagnose.
- `RST` = Restore.

`b` = ONTC common side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:ONTCCOM
OP:DMQ
RST:ONTCCOM
```

Output Message(s):

```
DGN:ONTCCOM
```

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```
OP:DMQ-CM
RST:ONTCCOM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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STP:OP-ALM-ALL

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of all active alarms in the office in response to the OP:ALM-ALL input message be stopped. This request will not stop the reports dealing with office building, power, and miscellaneous alarms, common network interface (CNI) alarms, external sanity monitor (ESM) alarms, miscellaneous frame fuse alarms, time-multiplexed switch (TMS) alarms, message switch (MSGS) alarms, or office network and timing complex (ONTC) alarms. These outputs are collected and queued to the receive-only printer (ROP) too quickly to stop, even though the printouts haven't printed yet.

2. FORMAT

```
STP:OP:ALM,ALL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request has been accepted.

`NG` = No good. May also include:
- `OP ALM ALL NOT RUNNING` = The request is being denied because there is no OP:ALM-ALL request currently in progress.

5. REFERENCES

Input Message(s):

```
CLR:OP-ALM-ALL
OP:ALM
OP:CFGSTAT
OP:CGA
OP:MSUSP
OP:RT-ALM-ALL
```

Output Message(s):

```
OP:ALM-ALL
OP:ALM-RBPSC
OP:ALM-RIBMSC
OP:ALM-RISLUSC
OP:CFGSTAT-CM
OP:CGA
```

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```
OP:MSUSP
OP:RT-ALARM
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*
235-190-115 *Local and Toll System Features*
363-200-101 *DCLU Integrated SLC® Carrier System*

MCC Display Page(s):

105,106 (BLDG/POWER AND ALARM CNTRLS)
115 (COMMUNICATION MODULE SUMMARY)
116 (MISCELLANEOUS)
118 (CNI FRAME AND CCS LINE STATUS)
119 (MISCELLANEOUS ALARMS)
1010,x (SM X STATUS)

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STP:OP-MON

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that any action in progress due to an OP:MON-CTL, OP:MON-PID or OP:MON-DSP input message be stopped.

2. FORMAT

```
STP:OP,MON,{AM|SM=a|CMP=b-c};
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

5. REFERENCES

Input Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
```

Output Message(s):

```
OP:MON-CTL
OP:MON-DSP
OP:MON-PID
STP:OP-MON
```

Input Appendix(es):

```
APP:RANGES
```

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STP:OPUMP-SM

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that offline pump requests for the specified switching modules (SMs) including peripheral offline pumps be cancelled.

If an offline pump has been started using the ST:OPUMP message or automatically in the retrofit procedure, this input message aborts the request for the specified SM(s).

If an offline pump has been performed, but some of the duplexed peripheral units failed to offline pump, this message can be used to stop a re-pump of a duplexed peripheral unit.

WARNING: This message is used to abort the offline pump of an SM or duplexed peripheral units.

2. FORMAT

```
STP:OPUMP, SM=a[&&b][,LSM][,HSM][,RSM];
```

3. EXPLANATION OF MESSAGE

`HSM` = Stop offline pump of the HSMs within the indicated range.

`LSM` = Stop offline pump of the LSMs within the indicated range.

`RSM` = Stop offline pump of the RSMs within the indicated range.

`a` = SM number, or the lower limit of a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit of the range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated due to bad syntax or invalid SM specified.

`OK` = Message good. Valid value(s):
- `PUMPING SMS WILL REPORT` = Printout will follow from only those SMs specified that were in a pumping state.

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5. REFERENCES

Input Message(s):

```
ST:OPUMP-SM
```

Output Message(s):

```
REPT:SM-HASHSUM
REPT:SM-OFFLINE
```

Input Appendix(es):

```
APP:RANGES
```

STP:OPUMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the offline pump be stopped.

2. FORMAT

```
STP:OPUMP,CMP=a,MATE;
```

3. EXPLANATION OF MESSAGE

`MATE` = Non-active CMP.

`a` = CMP number.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully. If no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the abort message, ABT:CMP, as a final resort if the original request is still present.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

`ST:OPUMP-CMP`

Input Appendix(es):

`APP:CM-IM-REASON`

Output Message(s):

`ST:OPUMP-CMP`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

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235-105-250 *System Recovery Procedures*

STP:PAG

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on a network interface.

2. FORMAT

```
STP:PAG=a-b,~NETINTF=c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet access gateway (PAG) component number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:PAG output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`STP:PAG`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1342,y PAG

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STP:PCF

Software Release: 5E17(1) and later
Command Group: PCF
Application: 5
Type: Input

1. PURPOSE

Stop currently printing packet data serving node (PDSN) status list. PDSN status lists are printed when an OP:PCF input message is processed.

2. FORMAT

```
STP:PCF;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the STP:PCF output message.

5. REFERENCES

Input Message(s):

```
OP:PCF
```

Output Message(s):

```
OP:PCF
STP:PCF
```

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STP:PCTDX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on a peripheral control and timing data exchanger (PCTDX)

2. FORMAT

```
STP:PCTDX=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:PCTDX output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:PCTDX
RMV:PCTDX
RST:PCTDX
```

Output Message(s):

```
STP:PCTDX
```

Input Appendix(es):

```
APP:RANGES
```

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Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1330,y (PDXU)

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STP:PCTF

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

To request a graceful stop of the currently printing per call test failure (PCTF) summary. PCTF summary lists are printed when an OP:PCTF input message is processed and automatically on a periodic basis. The STP:PCTF request will only stop a manually initiated PCTF summary; automatically initiated summaries are not affected.

2. FORMAT

```
STP:PCTF;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the STP:PCTF output message.

`RL` = Retry later. The request has been denied, most probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:PCTF
```

Output Message(s):

```
OP:PCTF
STP:PCTF
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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STP:PERF

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the Operating System for Distributed Switching (OSDS) resource monitoring utility to stop collecting and reporting usage of OSDS message, process, stack, and timer control blocks.

2. FORMAT

```
STP:PERF,{AM|CMP=a-b|SM=c};
```

3. EXPLANATION OF MESSAGE

`AM` = Operational kernel process in the administrative module (AM).

`a` = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
- `CMP NOT EQUIPPED` = Requested CMP is not equipped.
- `INTERNAL ERROR` = An internal error has occurred while processing a CMP request.

`OK` = Request was successful. OSDS resource monitoring in the requested destination will be halted. May also include:
- `JOB ALREADY INACTIVE` = OSDS resource monitoring was already disabled.

`RL` = Retry later. The request cannot be initiated now because:
- `CMP SOFT SWITCH INPG` = A CMP soft switch is in progress.
- `CMP UNAVAILABLE` = Requested CMP is out of service, initializing, or unavailable.

5. REFERENCES

Input Message(s):

`OP:PERF`

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Output Message(s):

OP:PERF

Input Appendix(es):

APP:RANGES

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STP:PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Stops the currently executing action on a PCT (Peripheral Control and Timing) line and trunk unit link.

2. FORMAT

```
STP:[a,]PLTLK=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the PCT link). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`UCL` = Remove unconditionally.

4. SYSTEM RESPONSE

`NG` = No good. Valid values are:
- `REASON FOR NG` = The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A STP PLTLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

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```
ABT:PLTLK
DGN:PLTLK
RST:PLTLK
RMV:PLTLK
SW:PLTLK
```

Output Message(s):

```
STP:PLTLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1430 (PLTU Status page)

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STP:PM-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a specific integrated services digital network (ISDN) channel protocol monitoring (PM) session or all protocol monitoring sessions be stopped. If XLATE is requested, the American standard code for information interchange (ASCII) translation of the hexadecimal data currently collected for the specified session(s) will be sent to the ASCII translation file (ATF) atf.xxx. If DUMP is requested for a PM session that was initiated with the XLATE input message, the ASCII translation of the hexadecimal data currently collected for the specified session(s) will be sent to the ATF. Otherwise, if DUMP is requested, the hexadecimal data currently collected for the specified session(s) will be displayed.

2. FORMAT

```
STP:PM{,SES=a|ALL}[,DUMP][,PRINT][,XLATE];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = Stop all protocol monitoring sessions.

`DUMP` = Dump the recorded data before the session is terminated. If the PM session was initiated with the XLATE option, dumping the data will have the same result as issuing the STP:PM input message with the XLATE option. Otherwise, the hexadecimal data will be displayed.

`PRINT` = Print the EXC PM STOPPED output on the receive-only printer (ROP).

NOTE: If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

NOTE: If the output from this PM session is being translated because the session was initiated with the XLATE option, or because the STP:PM input message was given with the XLATE option, the PRINT option will have no impact. Translated data will never go to the ROP.

`XLATE` = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols. Translation is supported for LapB, LapD, Q.931 (Custom only), X.25, and X.75. Protocols. If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ATF in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

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NOTE: If the data collection phase of the session has terminated prior to the execution of the STP:PM input message, translation is no longer an option.

NOTE: Translated data will never go to the ROP.

`a` = The protocol monitoring session (SES) specified in the EXC PM STARTED output message.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized, or was not acceptable.

`PF` = Printout follows. The request has been accepted and is in progress. Followed by the STP:PM output message.

`RL` = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

```
EXC:PM
OP:PM
```

Output Message(s):

```
EXC:PM
OP:PM
STP:PM
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-190-130 *Local Area Services Features*
235-900-301 *ISDN Basic Rate Interface Specification*

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STP:PM-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a specific integrated services digital network (ISDN) channel protocol monitoring (PM) session or all protocol monitoring sessions be stopped. After the introduction of PCF on PHE2 feature, it is also used to stop a PCF PM session. If SES=ALL is specified, all the PM sessions will be stopped. If XLATE is requested, the American standard code for information interchange (ASCII) translation of the hexadecimal data currently collected for the specified session(s) will be sent to the ASCII translation file (ATF) atf.xxx. If DUMP is requested for a PM session that was initiated with the XLATE input message, the ASCII translation of the hexadecimal data currently collected for the specified session(s) will be sent to the ATF. Otherwise, if DUMP is requested, the hexadecimal data currently collected for the specified session(s) will be displayed.

2. FORMAT

```
STP:PM{,SES=a|ALL}[,DUMP][,PRINT][,XLATE];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ALL` = Stop all protocol monitoring sessions.

`DUMP` = Dump the recorded data before the session is terminated. If the PM session was initiated with the XLATE option, dumping the data will have the same result as issuing the STP:PM input message with the XLATE option. Otherwise, the hexadecimal data will be displayed.

`PRINT` = Print the EXC PM STOPPED output on the ROP.

If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

If the output from this PM session is being translated because the session was initiated with the XLATE option, or because the STP:PM input message was given with the XLATE option, the PRINT option will have no impact. Translated data will never go to the ROP.

`XLATE` = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols. Translation is supported for LAPB, LAPD, Q.931 (Custom only), X.25, X.75, and RLP protocols. If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ATF in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

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If the data collection phase of the session has terminated prior to the execution of the STP:PM input message, translation is no longer an option.

Translated data will never go to the ROP.

`a` = The protocol monitoring session (SES) specified in the EXC PM STARTED output message.

4. SYSTEM RESPONSE

`NG` = No good. The message was not recognized, or was not acceptable.

`PF` = Printout follows. The request has been accepted and is in progress. Followed by the STP:PM output message.

`RL` = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

```
EXC:PM
OP:PM
```

Output Message(s):

```
EXC:PM
OP:PM
STP:PM
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*
235-190-104 *ISDN Feature Descriptions*
235-190-130 *Local Area Signaling Services*
235-900-341 *National ISDN Basic Rate Interface Specification*

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STP:PMCCS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a specific CCS protocol monitoring (PM) session or all CCS protocol monitoring sessions be stopped. If DISCARD is specified, any data collected for the session(s) will be discarded (i.e. not reported). If the data is to be reported, the default format of the data will be the format that was specified on the initiating EXC:PMCCS command for that session. That is, if the EXC:PMCCS command initiating this session defaulted to XLATE, then the STP:PMCCS output will also be translated as a default. Similarly, if the EXC:PMCCS command initiating this session was specified to provide a HEXDUMP, then the STP:PMCCS output will also provide a HEXDUMP as a default. Two options are provided to override the STP:PMCCS default output format. Specifying XLATE on the STP:PMCCS will provide translation of the hexadecimal data in an ASCII translation file (ATF) atf.xxx. If HEXDUMP is requested for the STP:PMCCS command, the hexadecimal data currently collected for the specified session(s) will be displayed on the receive-only printer (ROP).

Note: The STP:PMCCS command stops all subsequent sessions related to the session specified. That is, if the STP:PMCCS command is issued to stop a session that was initiated with the REPEAT option, the session will not REPEAT.

2. FORMAT

```
STP:PMCCS{,SES=a|ALL}[,XLATE|HEXDUMP|DISCARD];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format. The default behavior for the STP:PMCCS command is to display the data as was requested in the EXC:PMCCS command which initiated the request.

`ALL` = Stop all CCS protocol monitoring sessions.

`XLATE` = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Overrides EXC:PMCCS specification. If the translation of the protocol is not supported, the information will be reported in hexadecimal format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ATF in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

`HEXDUMP` = Report the data in hexadecimal format on the ROP. Overrides EXC:PMCCS specification.

`DISCARD` = Do not report any data collected. This option can be used to stop sessions that are in a TRANSIENT STATE.

`a` = The CCS protocol monitoring session (SES) specified in the EXC PMCCS STARTED output message.

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4. SYSTEM RESPONSE

NG	= No good. The message was not recognized, or was not acceptable.
PF	= Printout follows. The request has been accepted and is in progress. Followed by the STP:PMCCS output message.
RL	= Retry later. The system is busy.

5. REFERENCES

Input Message(s):

```
EXC:PMCCS
OP:PMCCS
```

Output Message(s):

```
EXC:PMCCS
OP:PMCCS
STP:PMCCS
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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STP:PMU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the pulse metering unit (PMU) at the specified location be stopped.

2. FORMAT

```
STP:[a,]PMU=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the PMU). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:PMU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:PMU
EX:PMU
RMV:PMU
RST:PMU
```

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Output Message(s):

```
STP:PMU
```

Input Appendix(es):

```
APP:RANGES
```

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STP:PPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the specified pump peripheral controller (PPC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

```
STP:a,PPC=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is any action currently waiting or executing on the PPC). Valid value(s):

`DGN`	= Diagnose. (Not valid for CM3)
`EX`	= Exercise. (Not valid for CM3)
`RST`	= Restore.

`b` = PPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

`NG` = No good. The request has been denied. The message syntax is invalid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

```
DGN:PPC
EX:PPC
OP:DMQ
RST:PPC
```

Output Message(s):

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```
DGN:PPC
EX:PPC
OP:DMQ-CM
RST:PPC
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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STP:PPPLK

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on an optical interface unit (OIU) point to point protocol link (PPPLK) be stopped.

2. FORMAT

```
STP:[a,]PPPLK=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:PPPLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:PPPLK
RMV:PPPLK
```

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```
RST:PPPLK
```

Output Message(s):

```
STP:PPPLK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1494 OIU PKT STATUS

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STP:PROTO

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the protocol circuit (PROTO) at the specified location be stopped.

2. FORMAT

```
STP:[a,]PROTO=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the PROTO). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:PROTO output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:PROTO
EX:PROTO
RMV:PROTO
RST:PROTO
```

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Output Message(s):

```
STP:PROTO
```

Input Appendix(es):

```
APP:RANGES
```

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STP:PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a packet switch unit (PSU) common controller (COM) be stopped.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

2. FORMAT

```
STP:[a,]PSUCOM=c-d-e[-f];
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

Note: The default is the action currently executing on the PSU.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:PSU output message.

5. REFERENCES

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Input Message(s):

```
DGN:PSU
EX:PSU
OP:DMQ
OP:OOS
RMV:PSU
RST:PSUCOM
RST:PSUPH
```

Output Message(s):

```
STP:PSU
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

PSU SHELF
PSU NETWORK

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STP:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a packet switch unit (PSU) common controller (COM) be stopped.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

2. FORMAT

```
STP:[a,]PSUCOM=c-d-e[-f];
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

Note: The default is the action currently executing on the PSU.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:PSU output message.

5. REFERENCES

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Input Message(s):

```
DGN:PSU
EX:PSU
OP:DMQ
OP:OOS
RMV:PSU
RST:PSUCOM
RST:PSUPH
```

Output Message(s):

```
STP:PSU
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

PSU SHELF
PSU NETWORK

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STP:PSUPH-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a packet switch unit (PSU) protocol handler (PH) be stopped.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

2. FORMAT

```
STP:[a,]PSUPH=c-d-e[-f];
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

Note: The default is the action currently executing on the PSU.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:PSU output message.

5. REFERENCES

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Input Message(s):

```
DGN:PSU
EX:PSU
OP:DMQ
OP:OOS
RMV:PSU
RST:PSUCOM
RST:PSUPH
```

Output Message(s):

```
STP:PSU
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

PSU SHELF
PSU NETWORK

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STP:PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a packet switch unit (PSU) protocol handler (PH) be stopped.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

2. FORMAT

```
STP:[a,]PSUPH=c-d-e[-f];
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

Note: The default is the action currently executing on the PSU.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:PSU output message.

5. REFERENCES

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Input Message(s):

```
DGN:PSU
EX:PSU
OP:DMQ
OP:OOS
RMV:PSU
RST:PSUCOM
RST:PSUPH
```

Output Message(s):

```
STP:PSU
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

PSU SHELF
PSU NETWORK

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STP:PSUPIDB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) be stopped.

2. FORMAT

```
STP:[a,]PSUPIDB=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the PSU PIDB). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:PSUPIDB output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:OOS
RMV:PSUPIDB
RST:PSUPIDB
```

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Output Message(s):

```
STP:PSUPIDB
```

Input Appendix(es):

```
APP:RANGES
```

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STP:QGP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a quad-link packet switch (QLPS) gateway processor (QGP) be stopped (STP).

2. FORMAT

```
STP:[a,]QGP=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. This input message will stop all requests with the specified action either waiting or executing for the QGP; if no action is given, all requests for the QGP are stopped. Valid value(s):

`DGN`	= Diagnose. (Not valid for CM3)
`EX`	= Exercise. (Not valid for CM3)
`RST`	= Restore.
blank	= Any or all the above actions currently waiting or executing on the QGP.

`b` = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the STP:QGP output message.

5. REFERENCES

Input Message(s):

```
DGN:QGP
EX:QGP
OP:DMQ-CM-SM
RST:QGP
```

Output Message(s):

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```
DGN:QGP
EX:QGP
OP:DMQ-CM
RST:QGP
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

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STP:RAF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified actions on the recorded announcement function (RAF) unit be stopped.

2. FORMAT

```
STP:[a,]RAF=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the RAF). Valid value(s):
- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number.

`c` = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by an STP:RAF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

```
ABT:RAF
DGN:RAF
EX:RAF
RMV:RAF
RST:RAF
```

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Output Message(s):

```
STP:RAF
```

Input Appendix(es):

```
APP:RANGES
```

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STP:RAU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM) alarm (RAU) circuit be stopped.

2. FORMAT

```
STP:[a,]RAU=b;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the RAU). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:RAU output message.

5. REFERENCES

Input Message(s):

```
DGN:RAU
EX:RAU
RMV:RAU
RST:RAU
```

Output Message(s):

```
STP:RAU
```

Input Appendix(es):

```
APP:RANGES
```

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STP:RCHIST

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a previously entered REPT:RCHIST input message be stopped.

2. FORMAT

```
STP:RCHIST[,CLERK=a];
```

3. EXPLANATION OF MESSAGE

a	= Clerk name, consisting of no more than eight American standard code for information interchange (ASCII) characters excluding blanks and special characters.

4. SYSTEM RESPONSE

PF	= Printout follows. The request was accepted. Followed by an STP:RCHIST output message.

5. REFERENCES

Input Message(s):

```
OP:RCHIST
REPT:RCHIST
```

Output Message(s):

```
OP:RCHIST
REPT:RCHIST
STP:RCHIST
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x *Software Release Retrofit*

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STP:RCL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on an inter-remote switching module (RSM) communication link (RCL) be stopped.

2. FORMAT

```
STP:[a,]RCL=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is the action currently executing on the RCL). Valid value(s):
`RMV` = Remove.
`RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Inter-RSM communication link digital facilities interface (CDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Facility (FAC) number. The FAC number is the T1 facility number on a CDFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the STP:RCL output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
RMV:RCL
RST:RCL
```

Output Message(s):

```
STP:RCL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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STP:RCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on the remote clock (RCLK) circuit be stopped. The unit is left out-of-service.

2. FORMAT

```
STP:[a,]RCLK=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the RCLK):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

`PF` = Printout follows. Followed by the STP:RCLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

- DGN:RCLK
- EX:RCLK
- RMV:RCLK

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RST:RCLK

Output Message(s):

STP:RCLK

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(RSM RCU)

STP:RCRLS

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a previously entered EXC:RCRLS input message be stopped.

2. FORMAT

```
STP:RCRLS[,CLERK=a];
```

3. EXPLANATION OF MESSAGE

Upon completion of this input message, all recent changes applied before this input message was entered remain applied.

`a` = Clerk name, consisting of no more than eight (8) ASCII characters excluding blanks and special characters.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. Followed by an STP:RCRLS output message.

5. REFERENCES

Input Message(s):

```
EXC:RCRLS
OP:RCHIST
```

Output Message(s):

```
EXC:RCRLS
OP:RCHIST
STP:RCHIST
STP:RCRLS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x *Software Release Retrofit*

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STP:RCRMV

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a previously entered EXC:RCRMV input message for a delayed release clerkfile be stopped.

2. FORMAT

```
STP:RCRMV[,CLERK=a];
```

3. EXPLANATION OF MESSAGE

Upon successful completion of this message, no recent changes are removed from the clerkfile being processed by the EXC:RCRMV input message.

`a` = Clerk name, consisting of no more that eight (8) ASCII characters excluding blanks and special characters.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request was accepted. Followed by an STP:RCRMV output message.

5. REFERENCES

Input Message(s):

```
EXC:RCRMV
OP:RCHIST
```

Output Message(s):

```
EXC:RCRMV
OP:RCHIST
STP:RCHIST
STP:RCRMV
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x *Software Release Retrofit*

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STP:RDTA

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a given active remote digital test access (RDTA) session be stopped.

The active RDTA session will be terminated based on the session number returned in the EXC RDTA output message after the connection was setup. The session number must either be known by the user attempting maintenance or it can be found by exercising the OP:RDTA input message to receive information on all sessions (SES=ALL option). This session number input verifies the user's knowledge of the session's status to the switch when changes are made affecting the session.

2. FORMAT

```
STP:RDTA,SES=a;
```

3. EXPLANATION OF MESSAGE

`a` = Session number of the active RDTA connection to be stopped.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the STP:RDTA output message.

`RL` = Retry later. May also include:
- `FAILED TO CREATE PROCESS` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `TOO MANY PROCESSES ACTIVE` = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
OP:RDTA
EXC:RDTA
UPD:RDTA
VFY:RDTA
```

Output Message(s):

```
EXC:RDTA
OP:RDTA
```

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```
STP:RDTA
UPD:RDTA
VFY:RDTA
```

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STP:REX-CM-SM

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that either one or all valid test types of routine exercise (REX) of the hardware be stopped in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs.

2. FORMAT

```
STP:REX[,CM|,SM=a[&&b]][,c];
```

3. EXPLANATION OF MESSAGE

`a` = Number of the SM or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = REX test type to be stopped (default is to stop all valid test types). Valid value(s):

- `DGN` = Stop diagnostic exercise
- `ELS` = Stop electronic loop segregation tests. This is not a valid test type for the CM.
- `FAB` = Stop fabric exerciser tests of grids. This is not a valid test type for the CM.

NOTE: If neither CM nor SM is specified, the default is to stop exercise hardware in the CM and all SMs.

4. SYSTEM RESPONSE

`NG` = No good. The request was not a valid entry.

`PF` = Printout follows. Request is valid and output message will follow.

`RL` = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

```
EXC:REX-CM-SM
```

Output Message(s):

```
EXC:REX
```

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Input Appendix(es):

```
APP:RANGES
```

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STP:RLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on the remote switching module (RSM) remote link interface (RLI) circuit.

2. FORMAT

```
STP:[a,]RLI=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the RLI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:RLI output message.

5. REFERENCES

Input Message(s):

```
DGN:RLI
EX:RLI
RMV:RLI
RST:RLI
```

Output Message(s):

```
STP:RLI
```

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Input Appendix(es):

```
APP:RANGES
```

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STP:RMV-RT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped. This message is applicable for TR303 RTs terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
STP:RMV RT,a;
```

3. EXPLANATION OF MESSAGE

a = Unit to be stopped. Valid value(s):

```
EOC=b-c
TMC=b-d
```

b = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the corresponding output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RT-EOC
RMV:RT-TMC
RST:RT-EOC
RST:RT-TMC
```

Output Message(s):

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```
STP:RT-EOC
STP:RT-TMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1660,xxxx TR303 REMOVTE TERMINAL
188xyy IDCU REMOVTE TERMINAL

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STP:RPCU

Software Release: 5E15 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the printing of alarmed radio port controller units (RPCUs) by an OP:RPCU input message be stopped.

2. FORMAT

```
STP:RPCU,ALARM;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = The input message is not valid.

`PF` = Printout follows. The request has been accepted. Followed by the STP:RPCU output message.

RL = Retry later. May also include:
- `FAILED TO CREATE PROCESS` A system error has occurred in executing the STP:RPCU input message.

5. REFERENCES

Input Message(s):

`OP:RPCU`

Output Message(s):

`STP:RPCU`
`OP:RPCU`

Other Manual(s):
230-701-100 *Air Extension^{SM} Reference Manual*
230-701-120 *Air Extension^{SM} User's Guide*

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STP:RRCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).

2. FORMAT

```
STP:[a,]RRCLK=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.
- `SW` = Switch.

NOTE: The default is the action currently executing on the RRCLK.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = RRCLK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
-CONFLICT WITH UNIT STATE
-SM DOES NOT EXIST
-SM UNEQUIPPED
-UNIT DOES NOT EXIST
```

`PF` = Printout follows. Followed by the STP:RRCLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

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Input Message(s):

```
DGN:RRCLK
EX:RRCLK
RMV:RRCLK
RST:RRCLK
SW:RRCLK
```

Output Message(s):

```
STP:RRCLK
```

Input Appendix(es):

```
APP:RANGES
```

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STP:RST-RT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped. This message is applicable for TR303 RTs terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
STP:RST RT,a;
```

3. EXPLANATION OF MESSAGE

a = Unit to be stopped. Valid value(s):

```
EOC=b-c
TMC=b-d
```

b = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the corresponding output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RT-EOC
RMV:RT-TMC
RST:RT-EOC
RST:RT-TMC
```

Output Message(s):

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```
STP:RT-EOC
STP:RT-TMC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1660,xxxx TR303 REMOTE TERMINAL
188xyy IDCU REMOTE TERMINAL
RSM RCU

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STP:RST-TRK-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a RST:TRK request be stopped and the trunk(s) be put back into an appropriate out-of-service status. The same identifier used in the original RST:TRK input command must be used with this command.

2. FORMAT

```
STP:RST,TRK,{a|PID=b-c}[,UCL]
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`UCL` = Execute the removal unconditionally. All stable calls will be disconnected (traffic release).

`a` = Equipment number or identifier. Valid value(s): .nf `DEN=d-e-f-g ILEN=d-h-i-j INEN=d-k-i-j NEN=d-k-l-a[1]-m-n-b[1]-o PLTEN=d-c[2]-d[2]-e[2]-f[2] PRIGRP=p PSUEN=d-q-r-s-t TEN=d-u-v-w-x TG=y TKGMN=y-z` .fi

`b` = Task process number associated with the task.

`c` = A uniqueness qualifier to further identify the task.

Note: The PID and UNIQ values can be obtained from the OP:JOBSTATUS input message.

`d` =SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` =Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` =Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` =Channel number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` =Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` =Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` =RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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k	=DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l	=Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m	=Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n	=Virtual tributary 1.5 (VT1.5) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o	=Digital signal level 0 (DS0) number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p	=Primary rate interface (PRI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
q	=PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
r	=PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
s	=PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
t	=Line group number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
u	=Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
v	=Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
w	=Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
x	=Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
y	=Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
z	=Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
a[1]	= Signalling terminating equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b[1]	= VT1.5 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`c`[1] = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Channel number or `ALL`. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NA = Not available. May also include:
- FEATURE NOT LOADED = The special feature is not turned on.

PF = The request has been accepted and the STP:RST output message follows.

5. REFERENCES

Input Message(s):

```
RST:TRK
OP:JOBSTATUS
```

Output Message(s):

```
STP:RST
RMV:TRK
RST:TRK
OP:JOBSTATUS
```

Input Appendix(es):

```
APP:RANGES
```

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STP:RST-TRK-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a RST:TRK request be stopped and the trunk(s) be put back into an appropriate out-of-service status. The same identifier used in the original RST:TRK input message must be used with this one.

2. FORMAT

```
STP:RST,TRK,{a|PID=b-c}[,UCL]
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`UCL` = Execute the removal unconditionally. All stable calls will be disconnected (traffic release).

`a` = Equipment number or identifier. Valid value(s):

```
ATMPP=d-q-i1-j1
DEN=d-e-f-g
ILEN=d-h-i-j
INEN=d-k-i-j
NEN=d-k-l-a1-m-n-b1-o
OIUEN=d-k1-l1-m1-n1-n-b1-f1
PLTEN=d-c1-d1-e1-f1
PRIGRP=p
PSUEN=d-q-r-s-t
TEN=d-u-v-w-x
TG=y
TKGMN=y-z
VTRK=d-g1-h1
```

`b` = Task process number associated with the task.

`c` = A uniqueness qualifier to further identify the task. The PID and UNIQ values can be obtained from the OP:JOBSTATUS input message.

`d` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`g` = Channel number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Virtual tributary 1.5 group (VTGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Digital signal level 0 (DS0) number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Primary rate interface (PRI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Line group number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`y` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = SONET terminating equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Virtual tributary 1.5 member (VTMEM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Channel number or `ALL`. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Office interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NA` = Not available. May also include:
- FEATURE NOT LOADED = The special feature is not turned on.

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PF = Printout follows. The request has been accepted and the STP:RST output message follows.

5. REFERENCES

Input Message(s):

```
RST:TRK
OP:JOBSTATUS
```

Output Message(s):

```
STP:RST
RMV:TRK
RST:TRK
OP:JOBSTATUS
```

Input Appendix(es):

```
APP:RANGES
```

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STP:RTFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a remote terminal (RT) facility (FAC) circuit be stopped. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a DS1SFAC facility.

2. FORMAT

```
STP:[a,] RTFAC=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the RT FAC). Valid values are:

- `RMV` = Remove.
- `RST` = Restore.

`b` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:RTFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RTFAC
RST:RTFAC
```

Output Message(s):

```
STP:RTFAC
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1511,x,yy (DNUS STS MAINTENANCE)
1512,x,yy (DNUS STS DS1 APPLICATION)
1660,xxxx (TR303 REMOTE TERMINAL)

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STP:RVPT

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that currently running actions be stopped gracefully on the revertive pulsing transceiver (RVPT) at the specified location.

2. FORMAT

```
STP:[e,]RVPT=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The action to be stopped. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:RVPT output message.

`RL` = Repeat later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:RVPT
EX:RVPT
```

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```
RMV:RVPT
RST:RVPT
```

Output Message(s):

```
STP:RVPT
```

Input Appendix(es):

```
APP:RANGES
```

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STP:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Terminates an observation scope for all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation CCSMTCE messages.

It turns off all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation messages for trunks assigned to the specified origination point code (OPC), destination point code (DPC), and optional circuit identification code (CIC).

This input message has no affect if the ALW:S7RPT input message has not been entered.

2. FORMAT

```
STP:S7RPT,OPC=a,DPC=b[,CIC=c];
```

3. EXPLANATION OF MESSAGE

`a` = OPC identification.

`b` = DPC identification.

`c` = CIC identification.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `FEATURE NOT AVAILABLE` = The input message cannot be used in this office. The office should be upgraded.
- `S7RPT NOT ALLOWED` = The ALW:S7RPT input message must be issued for STP:S7RPT input message to have any affect.
- `HARDWARE NOT OPERATIONAL` = The office does not have SS7 trunks.
- `PARAMETER COMBINATION ERROR` = The input message parameter combination is wrong.
- `OBSERVATION SCOPE NOT ACTIVE` = No observation scopes are active.

`PF` = Printout follows. Followed by the EXC:S7RPT output message.

5. REFERENCES

Input Message(s):

`ALW:S7RPT`

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```
INH:S7RPT
EXC:S7RPT
OP:S7RPT
```

Output Message(s):

```
STP:S7RPT
```

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STP:S7XCHK

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Request that the active PCI7GR cross check request be stopped. Both demand PCI7GR cross check, initiated by an EXC:S7XCHK request, and periodic automatic cross check administered by RC/V View 8.15 (CCS OFFICE PARAMETERS) can be stopped by this input message.

2. FORMAT

```
STP:S7XCHK[,TYPE=a];
```

3. EXPLANATION OF MESSAGE

`a` = Demand PCI7GR cross check. Valid value(s):

`PCI7GR`

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. Valid value(s):

- `PCI7GR CROSS CHECK NOT RUNNING` = Can not stop since no PCI7GR cross check is currently running.

`OK` = The message has been accepted.

5. REFERENCES

Input Message(s):

```
ALW:S7XCHK
EXC:S7XCHK
INH:S7XCHK
OP:S7XCHK
```

Output Message(s):

```
EXC:S7XCHK
```

Input Appendix(es):

```
APP:RANGES
```

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RC/V View(s):
8.15 CCS OFFICE PARAMETERS

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STP:SAS

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified actions on the service announcement system (SAS) unit be stopped.

2. FORMAT

```
STP:[a,]SAS=b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the SAS). Valid value(s):
- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because it conflicts with current equipment status. May also include:
- `SM DOES NOT EXIST` = The requested SM does not exist in the system.
- `SM UNEQUIPPED` = The SM specified in the request is unequipped.
- `UNIT DOES NOT EXIST` = The requested unit does not exist in the system.

`PF` = Printout follows. The request has been accepted. Followed by the STP:SAS output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

```
DGN:SAS
EX:SAS
RMV:SAS
```

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```
RST:SAS
```

Output Message(s):

```
STP:SAS
```

Input Appendix(es):

```
APP:RANGES
```

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STP:SCAN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the scan scan point board (SCAN) at the specified location be stopped.

2. FORMAT

```
STP:[a,]SCAN=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the scan point board). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:SCAN output message.

5. REFERENCES

Input Message(s):

```
DGN:SCAN
EX:SCAN
RMV:SCAN
RST:SCAN
```

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Output Message(s):

```
STP:SCAN
```

Input Appendix(es):

```
APP:RANGES
```

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STP:SDFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a specified *SLC®*96 digital facility interface (SDFI) be stopped.

2. FORMAT

```
STP:[a,]SDFI=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the SDFI). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by an STP:SDFI output message.

5. REFERENCES

Input Message(s):

```
DGN:SDFI
EX:SDFI
RMV:SDFI
RST:SDFI
```

Output Message(s):

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```
STP:SDFI
```

Input Appendix(es):

```
APP:RANGES
```

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STP:SFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

2. FORMAT

```
STP:[a,]SFI=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the SFI). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:SFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:SFI
RMV:SFI
RST:SFI
```

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Output Message(s):

`STP:SFI`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1510 (DNUS STATUS)

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STP:SLIM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the subscriber line instrument measurement (SLIM) board at a specified location be stopped.

2. FORMAT

```
STP:[a,]SLIM=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped. Default is the action currently executing on the SLIM board. Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. The STP:SLIM output message will follow.

5. REFERENCES

Input Message(s):

```
DGN:SLIM
EX:SLIM
RMV:SLIM
RST:SLIM
```

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Output Message(s):

```
STP:SLIM
```

Input Appendix(es):

```
APP:RANGES
```

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STP:SS7

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the processing and output of the signaling system 7 (SS7) trunk data request or task, OP:SS7, be stopped. This request stops the output of segment blocks of an OP:SS7 request that have not yet been queued for printing and any further data collection and processing. This request does not stop the output of segment blocks already queued for printing at the time that this stop request is processed.

2. FORMAT

```
STP:SS7;
```

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted and the task is in the process of being stopped. The output message STP:SS7 from the stopped task follows, or the output message STP:SS7 as a general, non-specific task output message follows.

5. REFERENCES

Input Message(s):

```
OP:SS7
```

Output Message(s):

```
STP:SS7
OP:SS7
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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STP:ST-SCTP

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the processing and output of the stream control transmission protocol (SCTP) status be stopped. This request stops the output of segment blocks of an OP:ST-SCTP request that have not yet been queued for printing and any further data collection and processing. This request does not stop the output of segment blocks already queued for printing at the time that this stop request is processed.

Format 1 will stop the output of an OP:ST-SCTP request where `NEAREPT=a, DETAIL` was requested.

Format 2 will stop the output of an OP:ST-SCTP request where `ASSOC ALL` was requested.

2. FORMAT

```
[1]    STP:STATUS,SCTP,NEAREPT;
       _____________________________________________________________

[2]    STP:STATUS,SCTP,ASSOC;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted and the task is in the process of being stopped. The STP:ST-SCTP output message follows.

5. REFERENCES

Input Message(s):

```
OP:ST-SCTP
```

Output Message(s):

```
OP:ST-SCTP
STP:ST-SCTP
```

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STP:ST-SIP

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the processing of a previously-entered OP:ST-SIP input message be halted.

2. FORMAT

```
[1]    STP:STATUS,SIP,ALL;
       _____________________________________________________________

[2]    STP:STATUS,SIP,STATE={AVAIL|UNAVAIL};
       _____________________________________________________________

[3]    STP:STATUS,SIP,GSM=a;
       _____________________________________________________________

[4]    STP:STATUS,SIP,PCRGRP=a-b;
       _____________________________________________________________

[5]    STP:STATUS,SIP,BNID=c;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Session initiation protocol (SIP) global switching module (GSM) number.

`b` = SIP protocol handler (PH) processor group number on SIP GSM.

`c` = Internet protocol (IP) bearer network identifier.

4. SYSTEM RESPONSE

`NG` = No good.

`PF` = Followed by the STP:ST-SIP output message.

`RL` = Retry later. May also include:
- `OSSENDMSG FAILURE` = The operating system could not send the request to the appropriate process.

5. REFERENCES

IM/OM References:

None.

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Input Message(s):

```
OP:ST-SIP
```

Output Message(s):

```
OP:ST-SIP
STP:ST-SIP
```

Input Appendix(es):

```
APP:RANGES
```

RC/V View(s):

5.80	SIP-T GLOBAL SM
33.15	BEARER NETWORK DEFINITION
33.16	SIP-T PROCESSOR GROUP

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STP:STS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on a synchronous transport signal - level 1 (STS1) be stopped.

2. FORMAT

```
STP:[a,]STS1=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:STS1 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

`ABT:STS1`

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```
RMV:STS1
RST:STS1
```

Output Message(s):

```
STP:STS1
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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STP:STS3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on a synchronous transport signal - level 3 concatenated (STS3C) facility be stopped.

2. FORMAT

```
STP:[a,]STS3C=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:STS3C output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:STS3C
RMV:STS3C
```

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```
RST:STS3C
```

Output Message(s):

```
STP:STS3C
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1491 OIU OC3C STATUS

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STP:STSFAC-B

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC).

2. FORMAT

```
STP:[a,]STSFAC=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the STSFAC). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:STSFAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
RMV:STSFAC
RST:STSFAC
```

Output Message(s):

```
STP:STSFAC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)

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STP:SW

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the current switch on the unit specified be stopped.

2. FORMAT

```
STP:SW,a;
```

3. EXPLANATION OF MESSAGE

`a` = Unit to be stopped. Valid value(s):

```
AIUCOM=b-c-d
CMP=e-c
RRCLK=b-e[1]-d
```

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Message switch side number.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully.

For CMP messages, if no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the appropriate abort message as a final resort if the original request is still present.

`NG` = No good. The request has been denied because of a conflict with current status.

For CMP messages, refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows. Followed by the corresponding output message.

5. REFERENCES

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Input Message(s):

```
OP:DMQ-CM-SM
OP:OOS
ST:OPUMP-CMP
SW:AIUCOM
SW:CMP
SW:RRCLK
```

Output Message(s):

```
OP:DMQ-CM
ST:OPUMP-CMP
STP:AIUCOM
STP:CMP
STP:RRCLK
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):
1320,y,x AIU SUMMARY

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STP:TAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the trunk and access (TAC) circuit at the specified location be stopped.

2. FORMAT

```
STP:[a,]TAC=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the TAC circuit). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:TAC output message.

5. REFERENCES

Input Message(s):

```
DGN:TAC
EX:TAC
RMV:TAC
RST:TAC
```

Output Message(s):

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```
STP:TAC
```

Input Appendix(es):

```
APP:RANGES
```

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STP:TEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the analog trunk specified by the trunk equipment number (TEN) be stopped.

2. FORMAT

```
STP:[a,]TEN=b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the TEN). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:TEN output message.

5. REFERENCES

Input Message(s):

```
DGN:TEN
EX:TEN
RMV:TEN
```

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```
RST:TEN
```

Output Message(s):

```
STP:TEN
```

Input Appendix(es):

```
APP:RANGES
```

STP:TMSFP

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Stops a diagnostic, remove, or restore, on the time multiplexed switch (TMS) fabric pair (TMSFP) for the specified office network and timing complex (ONTC). This command also has the option of stopping any running or pending child requests of the parent TMSFP.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a graceful point of termination (for example, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

```
STP:[a,]TMSFP=b-c[,ALL];
```

3. EXPLANATION OF MESSAGE

`ALL` = Stop the TSMFP request and/or any child (for example, QLPS, NLI, DLI) requests that may exist on the deferred maintenance queues (DMQ).

`a` = Action to be stopped. The default is any action currently waiting or executing on the TMSFP. Valid value(s):

- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = ONTC side that the TMSFP is on.

`c` = TMS fabric pair number.

4. SYSTEM RESPONSE

`IP` = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
ABT:TMSFP
DGN:TMSFP
OP:DMQ-CM-SM
RMV:TMSFP
RST:TMSFP
```

Output Message(s):

```
DGN:TMSFP
OP:DMQ-CM
RMV:TMSFP
RST:TMSFP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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STP:TMUX

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

2. FORMAT

```
STP:[a,]TMUX=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the TMUX). Valid value(s):
- `DGN` = Diagnose.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:TMUX output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
DGN:TMUX
RMV:TMUX
RST:TMUX
```

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Output Message(s):

```
STP:TMUX
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1510 (DNUS STATUS)

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STP:TRCRT

Software Release: 5E20(1) and later
Command Group: PCF
Application: 5
Type: Input

1. PURPOSE

Stop currently running trace route (TRCRT).

2. FORMAT

```
STP:TRCRT,CHNG=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Packet switching unit (PSU) number.

`c` = PSU shelf number.

`d` = Channel group number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the STP:TRCRT output message.

`NG` = No good. May also include:
- `NOT VALID FOR PH` = The request has been denied. The message is valid but the source input is invalid.
- `PH OUT OF SERVICE` = The request has been denied. The message is valid but the source peripheral handler is out of service (OOS).

5. REFERENCES

Input Message(s):

`EXC:TRCRT`

Output Message(s):

`EXC:TRACEROUTE`
`STP:TRCRT`

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STP:TRIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a PCT (Peripheral Control and Timing) line and trunk unit link tributary (TRIB).

2. FORMAT

```
STP:[a,]TRIB=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the TRIB). Valid value(s):

- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = PCT Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Valid values are:
- `REASON FOR NG` = The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A STP TRIB output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

`RST:TRIB`

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```
RMV:TRIB
ABT:TRIB
```

Output Message(s):

```
STP:TRIB
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1430 (PLTU Status page)
1431 (PLTU Tributary Status Page)

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STP:TST-DSL

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Stops pending or currently running test(s) of a integrated service digital network (ISDN) digital subscriber line (DSL). The test to be stopped was previously requested by the TST:DSL input message or from the trunk and line work station (TLWS). This message stops all tests on the DSL specified.

Unless otherwise stated: all references to integrated services line unit (ISLU), include all configurations of the ISLU and the integrated services line unit, version 2 (ISLU2). This includes both the remote integrated services line unit (RISLU) and remote integrated services line unit version 2 (RISLU2). All references to access interface unit (AIU), include the remote access interface unit (RAIU). Reference to line unit (LU) includes all supported ISDN compatible LUs.

For integrated digital carrier unit (IDCU) or digital network unit - synchronous optical network (SONET) (DNU-S) remote digital terminal (RDT) DSLs, a corrupt cyclic redundancy check (CRC) test cannot be stopped (see the TST:DSL input message).

In general, the DSL test to be stopped is identified using the office equipment number (OEN) or an associated subscriber directory number (DN).

Format 1 stops ALL test requests in the system.

Format 2 stops test requests on any LU DSL using the subscriber DN.

Format 3 stops test requests on ISLU DSLs using the line card equipment number (LCEN).

Format 4 stops test requests on ISLU2 DSLs using the line circuit equipment number (LCKEN).

Format 5 stops test requests on AIU DSLs using the AIU equipment number (AIUEN).

Format 6 stops test requests on IDCU, DSLs using the IDCU line equipment number (ILEN).

Format 7 stops test requests on DNU-S, DSLs using the integrated digital loop carrier (IDLC) networking line equipment number (INEN).

2. FORMAT

```
[1]    STP:TST:DSL;

[2]    STP:TST:DSL,DN=a;

[3]    STP:TST:DSL,LCEN=b-c-d-i;

[4]    STP:TST:DSL,LCKEN=b-c-d-h-j;

[5]    STP:TST:DSL,AIUEN=b-c-h-j;

[6]    STP:TST:DSL,ILEN=b-e-g-k;
```

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```
[7]    STP:TST:DSL,INEN=b-f-g-k;
```

3. EXPLANATION OF MESSAGE

a = subscriber directory number.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISDN line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Remote digital terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Line board/pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RDT channel unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. A TST:DSL output message will follow when the test has been stopped.

5. REFERENCES

Input Message(s):

```
OP:CONV
TST:DSL
```

Output Message(s):

```
TST:DSL
```

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Input Appendix(es):

```
APP:RANGES
```

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STP:TST-ELS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a currently-running (manually-requested) electronic loop segregation (ELS) test be stopped. The test to be stopped has been previously requested by the TST:LINE-ELS input message.

Only one manually-requested ELS test per switching module (SM) is allowed. Therefore, any test of the line identifier type specified (DN, MLHG, and so forth) running in the SM will be stopped. Formats 1 through 6 are used to request that an ELS test related to an individual line of the type indicated be stopped. Format 7 is used to request that all ELS tests related to the specified SM be stopped.

2. FORMAT

```
[1]    STP:TST,ELS,DN=a[-n];

[2]    STP:TST,ELS,MLHG=b-c;

[3]    STP:TST,ELS,LEN=d-e-f-g[-h[-i]];

[4]    STP:TST,ELS,LCEN=d-k-l-m;

[5]    STP:TST,ELS,AIUEN=d-s-t-u;

[6]    STP:TST,ELS,LCKEN=d-o-p-q[-r];

[7]    STP:TST,ELS,SM=d;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Directory number (DN) of the line being tested. The directory number will include NPA for non-unique NXX DN.

`b` = Hunt group number of the line being tested (or any line in the same SM as the line being tested). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Line unit number of the line being tested (or any line in the same SM as the line being tested). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages

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manual.

`f` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Grid pack number (LU1, LU2, or LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If ALL is specified for variable '`g`' then variable '`h`' and '`i`' should be omitted.

`h` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If ALL is specified for variable '`h`' then variable '`i`' should be omitted.

`i` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If ALL is specified for variable '`i`' then the 4 lines on the specified switch will be stopped.

`k` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified should be the main DN for the group and the member number should indicate a specific member in the group. For LTSB a member number of 1 indicates the lead line and a member number of 2 indicates the associate line. If no member is specified, for 1-DN LTSB, the lead line will be stopped. If no member number is specified, for 2-DN LTSB, the line associated with the DN entered will be stopped.

`o` = Integrated services line unit-2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If ALL is specified for variable '`q`' then variable '`r`' should be omitted.

`r` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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Note: If ALL is specified for variable 'r' then all the lines on the line board will be stopped.

s = Access interface unit (AIU) equipment number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid but the request conflicts with current status.

PF = Printout follows. The request has been received. Followed by the STP:TST-ELS output message.

5. REFERENCES

Input Message(s):

```
TST:LINE-ELS
```

Output Message(s):

```
STP:TST-ELS
```

Input Appendix(es):

```
APP:RANGES
```

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STP:TST-LEN

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the line unit path exerciser (LUPEX) be stopped at the specified location.

2. FORMAT

```
STP:TST,LEN=a-b-c-d-e-f;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:TST-LEN output message.

`RL` = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:TST-LEN
TST:LEN
```

Output Message(s):

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```
ABT:TST-LEN
STP:TST-LEN
TST:LEN
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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STP:TST-MP

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a modem pool (MP) test started by the TST:MP input message be stopped.

The test will be stopped immediately.

2. FORMAT

```
[1]    STP:TST:MP,MPM=a-b;

[2]    STP:TST:MP,MPG=a;

[3]    STP:TST:MP,DN=c;
```

3. EXPLANATION OF MESSAGE

An MPG is a multi-line hunt group (MLHG). An MLHG can be identified by both its number and its directory number (DN). An MPM is identified by the group number and member number.

`a` = Modem pool group (MPG) number involved in this test.

`b` = Modem pool member (MPM) number of first MPM involved in this test.

`c` = Directory number (DN) of multi-line hunt group (MLHG) for this test.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied.

`PF` = Printout follows. The request has been accepted and the test will be stopped. Followed by the STP:TST-MP output message.

`RL` = Retry later. The request cannot be accepted now because of system load.

5. REFERENCES

Input Message(s):

`TST:MP`

Output Message(s):

`TST:MP`

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Other Manual(s):
235-105-220 *Corrective Maintenance*

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STP:TST-PATH-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Stops pending or currently running test(s) of a digital loop-back (LPBK) test on inter-working gateway (IWG) or the end to end test call. The test to be stopped was previously requested by the TST:PATH input message.

Format 1 stops ALL test requests in the system or on any SM. The SM parameter can only be used to stop tests which had requested with the IWG parameter on the original test path request.

Format 2 stops test requests for IWG test call. If user specified any path equipment number (PEN) identifiers in test path request, then the same identifiers can be specified here to stop the test.

Format 3 stops test requests for bearer independent connection control (BICC) test call. If user specified any IWG, PEN or overload control 3 (OC3) identifiers in test path request, then the same identifiers can be specified to stop the test.

2. FORMAT

```
[1]    STP:TST,PATH[,SM=a];
       ____________________________________________________________

[2]    STP:TST,PATH,IWG=a-b[,PEN=c[-d[-e]]];
       ____________________________________________________________

[3]    STP:TST,PATH,{BG=h|BGMN=h-i},OPDN=g[,IWG=a-b][,PEN=c[-d[-e]]][,OC3=f];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Relative link number (0-4). Each relative link (rlink) is a coaxial cable connected to a synchronous transport signal number 1 (STS-1e) card in the IWG. Each rlink is equivalent to an host facility on the IWG (also equivalent to IWGFAC#-1).

`d` = Relative tributary number (0-27). Each rlink has 28 relative tributary numbers (rtrib). The rtrib is logical entity on the rlink, which is equivalent to a DS1 in the DNUS. Each rtrib is a physical device chip inside of IWG which capable of handling 24 channels.

`e` = Digital signal 0 (DS0) value (0-24). DS0 is logical channels inside the rtrib. The total logical DS0 channels (total rtrib * total DS0) on a rlink is equivalent to the total time slots (TS) on 5E.

`f` = Optical carrier 3 (OC3) link number (0-1).

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`g` = Out pulse digits.

`h` = BICC group number.

`i` = BICC group member or normalized circuit identification code (CIC).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the TST:PATH output message.

5. REFERENCES

Input Message(s):

```
OP:BICC
OP:JOBSTATUS
TST:PATH
```

Output Message(s):

```
OP:BICC
OP:JOBSTATUS
TST:PATH
```

Input Appendix(es):

```
APP:RANGES
```

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STP:TST-PATH-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Stops pending or currently running test(s) of a digital loop-back (LPBK) test on inter-working gateway (IWG) or the end to end test call. The test to be stopped was previously requested by the TST:PATH input message.

Format 1 stops ALL test requests in the system or on any SM. The SM parameter can only be used to stop tests which had requested with the IWG parameter on the original test path request.

Format 2 stops test requests for IWG test call. If user specified any path equipment number (PEN) identifiers in test path request, then the same identifiers can be specified here to stop the test.

Format 3 stops test requests for bearer independent connection control (BICC) test call. If user specified any IWG, PEN or overload control 3 (OC3) identifiers in test path request, then the same identifiers can be specified to stop the test.

2. FORMAT

```
[1]    STP:TST,PATH[,SM=a];

[2]    STP:TST,PATH,IWG=a-b[,PEN=c[-d[-e]]];

[3]    STP:TST,PATH,{BG=h|BGMN=h-i},OPDN=g[,IWG=a-b][,PEN=c[-d[-e]]][,OC3=f];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Relative link number (0-4). Each relative link (rlink) is a coaxial cable connected to a synchronous transport signal number 1 (STS-1e) card in the IWG. Each rlink is equivalent to an Host Facility on the IWG (also equivalent to IWGFAC#-1).

`d` = Relative tributary number (0-27). Each rlink has 28 relative tributary numbers (rtrib). The rtrib is logical entity on the rlink, which is equivalent to a DS1 in the DNUS. Each rtrib is a physical device chip inside of IWG which capable of handling 24 channels.

`e` = Digital signal 0 (DS0) value (0-24). DS0 is logical channels inside the rtrib. The total logical DS0 channels (total rtrib * total DS0) on a rlink is equivalent to the total time slots (TS) on 5E.

`f` = Overload control 3 (OC3) link number (0-1).

`g` = Out pulse digits.

`h` = BICC group number.

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`i` = BICC group member or normalized circuit identification code (CIC).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the TST:PATH output message.

5. REFERENCES

Input Message(s):

```
OP:BICC
OP:JOBSTATUS
TST:PATH
```

Output Message(s):

```
OP:BICC
OP:JOBSTATUS
TST:PATH
```

Input Appendix(es):

```
APP:RANGES
```

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STP:TST-PATH-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Stops currently executing or pending test(s) initiated by a previously received TST:PATH input message. For descriptions of the various TST:PATH test types, see the TST:PATH input message manual page.

Format 1 stops ALL test requests in the system.

Format 2 stops the test request identified by the specified REQNO. The REQNO is assigned to the test request when the input message acknowledgment ("PF") is provided.

Format 3 stops all test requests which were requested for the specified switching module (SM) using either the optical interface unit (OIU) or the optical interface unit protection group (OIUPG) parameter in the original test request.

Format 4 stops test requests for packet test calls looped back internally in the packet OIU protection group.

Format 5 stops test requests for packet test calls connecting over the packet network to a test line in the far office.

Format 6 stops test requests for ATM packet pipe trunk test calls. The ability to stop all tests running on a specific ATM link is also provided.

Format 7 stops test requests for signaling ATM adaption layer (SAAL) high speed link (HSL) test calls.

If an identifier is specified in a STP:TST-PATH input message, generally that same identifier must have also been specified in the original TST:PATH request for it to be stopped by a stop request. By omitting an optional identifier in the STP:TST-PATH input message, no consideration is given to the use of that identifier in the original TST:PATH request in deciding whether or not to stop a running test.

2. FORMAT

```
[1]    STP:TST,PATH;
       ____________________________________________________________

[2]    STP:TST,PATH:REQNO=a[&&b];
       ____________________________________________________________

[3]    STP:TST,PATH:SM=c;
       ____________________________________________________________

[4]    STP:TST,PATH:[DELAY,]OIUPG=c-d-e,PCTTS=f-g;
       ____________________________________________________________

[5]    STP:TST,PATH:[{DELAY|OG105},]{PKTG=h|PKTGMN=h-i}
          [,OPDN=j][,{OIU=c-d|OIUPG=c-d-e}];
       ____________________________________________________________
```

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```
[6]    STP:TST,PATH:[{ATMENH|ATMLBK},]
          {ATMPP=c-k-l-{m|ALL}|TKGMN=n-o[&&p]|TG=n},
          [,RPT=q][,DUR=r][,CAMP=s];
       ____________________________________________________________

[7]    STP:TST,PATH:[ATMLBK,]PSUEN=c-k-t-u-v[,RPT=q][,CAMP=s];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Request number to be stopped, or the lower limit of a range of request numbers to be stopped (0-254).

`b` = Upper limit of a range of request numbers to be stopped (0-254).

`c` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = OIUPG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Peripheral control and timing (PCT) link number, relative to the OIU (0-2).

`g` = PCT time slot (PCTTS) number (0-767).

`h` = Packet group (PKTG) number (7000-7999).

`i` = Packet group member number (PKTGMN) (0-65535).

`j` = Outpulsed directory number (OPDN) of the appropriate test line type at far-end office.

`k` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = ATM link unit number (1-10).

`m` = Virtual connection identifier (VCID) number (0-1023). VCID is a virtual connection identifier that identifies a PVC on a given PSU ATM link. If "ALL" is specified instead of a specific VCID number, all test requests which are currently running or pending on each VCID of the matching SM-PSU-LINKs specified in TST:PATH input message will be stopped.

`n` = Trunk group number.

`o` = Trunk member number or the lower end of a range of trunk member numbers.

`p` = Upper end of a range of trunk member numbers.

`q` = Number of times to repeat (RPT) the test being run (1-32).

`r` = Duration (DUR) of the test to be run, in seconds.

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`s` = Camp-on time for the test being run (10-3600).

`t` = PSU shelf number (0-5).

`u` = PSU channel number (0-15).

`v` = PSU channel member number (0-127).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more TST:PATH output messages for stopped tests, or a STP:TST-PATH output message indicating the outcome of the request.

5. REFERENCES

Input Message(s):

```
OP:JOBSTATUS
TST:PATH
```

Output Message(s):

```
OP:JOBSTATUS
TST:PATH
STP:TST-PATH
```

Input Appendix(es):

```
APP:RANGES
```

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STP:TST-TRK

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the testing of trunks initiated by the TST:TRK input message be stopped. This message is entered to stop the tests on the remaining members of the trunk group and/or range specified in the TST:TRK input message.

2. FORMAT

```
STP:TST,TRK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied.
PF	= Printout follows. The request has been accepted and the test has been stopped. Followed by an STP:TST-TRUNK output message.
RL	= Retry later. The request cannot be executed now because of system load. Repeat request later.

5. REFERENCES

Input Message(s):

```
TST:TRK
```

Output Message(s):

```
STP:TST-TRUNK
```

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STP:TST-WLINE

Software Release: 5E15 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the test of continuity of analog lines terminated on the W-card of WNC be stopped.

2. FORMAT

```
STP:TST:WLINE
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NA` = NO TEST FOUND.

`PF` = Printout follows. The request has been accepted and is followed by an STP:TST:WLINE output message.

5. REFERENCES

Input Message(s):

```
TST:WLINE
```

Output Message(s):

```
TST:WLINE
```

Other Manual(s):
230-701-100 *Air Extension^{SM} Reference Guide*
235-701-120 *Air Extension^{SM} User Guide*

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STP:TTFCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the transmission test facility common (TTFCOM) board at the specified location be stopped.

2. FORMAT

```
STP:[a,]TTFCOM=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the TTFCOM board). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:TTFCOM output message.

5. REFERENCES

Input Message(s):

```
DGN:TTFCOM
EX:TTFCOM
RMV:TTFCOM
RST:TTFCOM
```

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Output Message(s):

```
STP:TTFCOM
```

Input Appendix(es):

```
APP:RANGES
```

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STP:TUCHBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the trunk unit channel board (TUCHBD) at the specified location be stopped.

2. FORMAT

```
STP:[a,]TUCHBD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the TUCHBD). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:TUCHBD output message.

5. REFERENCES

Input Message(s):

```
DGN:TUCHBD
RMV:TUCHBD
RST:TUCHBD
```

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Output Message(s):

```
STP:TUCHBD
```

Input Appendix(es):

```
APP:RANGES
```

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STP:UCONF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the universal conference (UCONF) circuit at the specified location be stopped.

2. FORMAT

```
STP:[a,]UCONF=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the UCONF circuit). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital service circuit unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:UCONF output message.

5. REFERENCES

Input Message(s):

```
DGN:UCONF
EX:UCONF
RMV:UCONF
RST:UCONF
```

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Output Message(s):

```
STP:UCONF
```

Input Appendix(es):

```
APP:RANGES
```

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STP:UMBIL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a host umbilical (UMBIL) circuit be stopped. This message is applicable for host umbilicals terminating on a digital line and trunk unit (DLTU) or on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a remove of a host facility (HFAC) or a DS1 facility.

2. FORMAT

```
STP:[a,]UMBIL=b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (the default action is the action currently executing on the UMBIL). Valid values are:
- `RMV` = Remove.
- `RST` = Restore.

`b` = Host Switch Module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Remote Switch Module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = UMBIL number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:UMBIL output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:UMBIL
RST:UMBIL
```

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```
ABT:UMBIL
```

Output Message(s):

```
STP:UMBIL
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1740,xxx,yyy (HOST UMBILICALS (1 - 10))
1741,xxx,yyy (HOST UMBILICALS (11 - 20))

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STP:UTD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the universal tone decoder (UTD) board at the specified location be stopped.

2. FORMAT

```
STP:[a,]UTD=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the UTD). Valid value(s):
- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital service unit board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:UTD output message.

5. REFERENCES

Input Message(s):

```
DGN:UTD
EX:UTD
RMV:UTD
RST:UTD
```

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Output Message(s):

```
STP:UTD
```

Input Appendix(es):

```
APP:RANGES
```

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STP:UTG

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the universal tone generator (UTG) board at the specified location be stopped.

2. FORMAT

```
STP:[a,]UTG=b-c-d-e;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the UTG board). Valid value(s):

- `DGN` = Diagnose.
- `EX` = Exercise.
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital service circuit unit board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied because of a conflict with current status.

`PF` = Printout follows. Followed by the STP:UTG output message.

5. REFERENCES

Input Message(s):

```
DGN:UTG
EX:UTG
RMV:UTG
RST:UTG
```

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Output Message(s):

```
STP:UTG
```

Input Appendix(es):

```
APP:RANGES
```

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STP:VT15

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on a virtual tributary - level 1.5 (VT15) be stopped.

2. FORMAT

```
STP:[a,]VT15=b-c-d-e-f-g-h;
```

3. EXPLANATION OF MESSAGE

`a` = Action being stopped (default is the currently executing action). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the STP:VT15 output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
ABT:VT15
RMV:VT15
RST:VT15
```

Output Message(s):

```
STP:VT15
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
1492 OIU STS1 STATUS

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STP:VT1FAC-B

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC).

2. FORMAT

```
STP:[a,]VT1FAC=b-c-d-e-f-g-h;
```

3. EXPLANATION OF MESSAGE

`a` = Action to be stopped (default is the action currently executing on the VT1FAC). Valid value(s):
- `RMV` = Remove.
- `RST` = Restore.

`b` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the STP:VT1FAC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
RMV:VT1FAC
RST:VT1FAC
```

Output Message(s):

```
STP:VT1FAC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)

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STP:WSTST

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests to stop the action of a test at the trunk and line work station (TLWS) test position (TP) started by a digital, metallic, supervision, or transmission test request.

2. FORMAT

```
STP:WSTST,TP=a;
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

`OK` = Good. The test was stopped.

5. REFERENCES

Input Message(s):

```
RLS:WSTST
TST:WSDGTL
TST:WSMEAS
TST:WSMET
TST:WSSEND
TST:WSSUPV
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

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160 (TRUNK & LINE MAINT)

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77. SW

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SW:AIUCOM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active major/active minor states of the access interface unit common data and control controller be switched (interchanged).

Note: Both controllers must be in service before this message will be honored.

2. FORMAT

```
SW:AIUCOM=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the SW:AIUCOM output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:AIUCOM`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1320,y,x (AIU SUMMARY)

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SW:ASM

Software Release: 5E15 and later
Command Group: ASM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby state of the administrative service module (ASM) be switched (interchanged) when high availability ASM (HA-ASM) exists in an office.

On a conditional request, the input request is only performed if the ASMs are in an active/standby configuration and no conflicting operations are in progress.

For the unconditional request, the input request is performed if the ASMs are in an active/standby configuration. If a conflicting operation is in progress, the UCL option will over-ride the operation.

The command is rejected if the mate ASM is in an out of service state.

The SW ASM output command will indicate if the request was started or blocked. Once the switch over is started, ASM state changes are reported using the REPT:ASM input message

2. FORMAT

```
SW:ASM[,UCL];
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good.

`RL` = Retry later.

`PF` = Printout follows. The command has been accepted. Followed by the SW:ASM output message indicating if the request can be started.

5. REFERENCES

Output Message(s):

```
REPT:ASM
SW:ASM
```

Other Manual(s):
235-200-145 *ASM User's Guide*

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SW:CLOCK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the mate network clock node be switched to the master network clock node.

If the STATUS data field is not used, the mate clock node will become the master clock node and will broadcast the change to all member nodes in the CCS network. This message can only be entered at the mate clock node. The status of the clock information can be verified by including the STATUS data field. The status information is the master/mate clock node point codes or a message if the data is not assigned. If the point codes are displayed and the master has been determined, it will be determined with an asterisk ('*').

2. FORMAT

```
SW:CLOCK[:STATUS];
```

3. EXPLANATION OF MESSAGE

`STATUS` = Verify the status of clock information. The status information is the master/mate clock node point codes or a message if the data is not assigned. If the point codes are displayed and the master has been determined, it will be marked with an asterisk ('*').

Note: Default will switch the network clock node to the master network clock node.

4. SYSTEM RESPONSE

`MASTER/MATE POINT CODES: UNASSIGNED` = If the master and mate clock nodes are not assigned, the following message will be output.

`NETWORK CLOCK DATA DOES NOT EXIST` = If the STATUS data field is not used, certain checks of the current status of the office are made. For the switch to be performed, neither the master nor mate point codes can equal "000000000". This condition would occur if the "clkdata" disk file does not exist or if it contains all zeroes for the point codes. If this condition is detected, the following message will be output.

`CLOCK MESSAGES ARE NOT ENABLED` = Additionally, for the switch to be performed, IMS messages must be allowed to be transmitted. They are not allowed if the office has not successfully completed an initialization of level 1 or higher. If this condition is detected, the following message will be output.

`CURRENT NODE MUST BE THE MATE CLOCK` = The last remaining check to be made is that the office is the mate clock. If the office is not currently the mate clock, the following message will be output.

5. REFERENCES

Copyright ©2007 Lucent Technologies

Output Message(s):

```
SW:CLOCK-COMPL
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

Copyright ©2007 Lucent Technologies

SW:CMP

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests activation of the standby of the communication module processor (CMP). The CMPs must be active standby to allow a switch.

This input message also stimulates the communication link normalization program (CLNORM) to analyze the resulting CMP and foundation peripheral controller (FPC) configuration and, under certain circumstances, modify it.

CLNORM modifies the configuration under the following circumstances. When message switch (MSGS) sides have an unequal number of communication links, CLNORM will attempt to keep the active CMP and active FPC configured to the MSGS side that carries the largest number of communication links. This is to reduce an administrative module (AM) performance degradation condition known as "message hairpinning". To ensure that CLNORM does not switch CMPs and FPCs back to the previous configuration, all MSGS hardware should be in service and communication links normalized before this input message is entered.

When MSGS sides have an equal number of communication links (the normal case), CLNORM will attempt to keep the active CMP and the active FPC on opposite MSGS sides. CLNORM keeps these units on separate sides so as to more evenly distribute message traffic between MSGS sides. In this case, issuing the SW:CMP input message will internally produce a switch of the FPC. Likewise, a switch of the FPC will indirectly produce a switch of the CMP.

During periods of repair or installation, this activity by CLNORM is inhibited by entering the INH:CLNORM,FPC and/or the INH:CLNORM,CMP input message.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution!

2. FORMAT

```
SW:CMP=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Switch the CMP unconditionally without performing a memory update.

`a` = Message switch side number.

`b` = CMP number.

4. SYSTEM RESPONSE

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NG = No good. The request has been denied. The message syntax was valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. The output message SW:CMP follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
INH:CLNORM
OP:CFGSTAT
RST:CMP
STP:CMP
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Output Message(s):

```
OP:CFGSTAT-CM
REPT:CMP-SW
RST:CMP
SW:CMP
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)

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SW:CU

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a graceful switch of the active/standby status of the administrative module (AM) control units (CUs). The CU switch is attempted only if the offline CU major status is standby.

2. FORMAT

```
SW:CU;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The CU's were not switched because the offline CU is not in an acceptable state.

`PF` = Printout follows. Followed by a SW:CU output message.

5. REFERENCES

Input Message(s):

```
OP:OOS
```

Output Message(s):

```
OP:OOS
SW:CU
```

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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SW:DLN

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Switches the active standby status of the direct link nodes (DLN) on the common network interface (CNI) ring. The input message is accepted only if the non-active DLN reflects a standby condition.

2. FORMAT

```
SW:DLN;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `MATE OUT OF SERVICE` = The switch has not been accepted because the DLN's do not reflect acceptable states.
- `RING IS IN SILENCE STATE` = Communication both to and from the node is not available at this time.

`PF` = Printout follows. The request has been accepted. Output message SW:DLN will follow.

5. REFERENCES

Output Message(s):

`SW:DLN`

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SW:DNUSCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be switched (interchanged).

Note: Both controllers must be in service before this message will be honored.

2. FORMAT

```
SW:DNUSCC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. A SW:DNUSCC output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
SW:DNUSCC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

Copyright ©2007 Lucent Technologies

1510 (DNUS STATUS)

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SW:DNUSCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be switched (interchanged).

2. FORMAT

```
SW:DNUSCD=a-b-c[,CONTROL];
```

3. EXPLANATION OF MESSAGE

`CONTROL` = This option applies only to the DNUSCDs on data group 0 where both DNUSCDs are OOS. If `CONTROL` is specified, the control link to the active DNUSCC is switched to the other DNUSCD.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. A SW:DNUSCD output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:DNUSCD`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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SW:DNUSEOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
SW:DNUSEOC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally execute the switch. Will perform a forced switch when one EOC is active and the other is standby or out of service as long as the EOC being switched to is available.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message is valid but the request conflicts with current status.
PF	= Printout follows. An SW:DNUSEOC output message will follow.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:DNUSEOC

Input Appendix(es):

APP:RANGES

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)

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SW:DNUSTMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
SW:DNUSTMC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

UCL	= Unconditionally execute the switch. Will perform a forced switch when one TMC is active and other is standby or out of service as long as the TMC being switched to is available.
a	= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b	= DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c	= RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message is valid but the request conflicts with current status.
PF	= Printout follows. Followed by the SW:DNUSTMC output message.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:DNUSTMC

Input Appendix(es):

APP:RANGES

Other Manual(s):

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235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)

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SW:FPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a switch of the foundation peripheral controller (FPC) unit. One FPC should be active and the other should be standby to allow a switch.

This input message also stimulates the communication link normalization program (CLNORM) to analyze the resulting FPC and communication module processor (CMP) configuration and, under certain circumstances, modify it. CLNORM will modify the configuration in the following manner. When message switch (MSGS) sides have an unequal number of communication links, CLNORM will attempt to keep the active FPC and active CMP configured to the MSGS side that carries the largest number of communication links. This is to reduce an administrative module (AM) performance degradation condition known as message hairpinning. To ensure that CLNORM does not switch FPCs and CMPs back to the previous configuration, all MSGS hardware should be in service and communication links normalized before this input message is entered. When MSGS sides have an equal number of communication links (the normal case), CLNORM will attempt to keep the active FPC and the active CMP on opposite MSGS sides. In this case, an FPC switch will also indirectly produce a switch of the CMP. Likewise, a switch of the CMP will indirectly produce a switch of the FPC. CLNORM keeps these units on separate sides so as to more evenly distribute message traffic between MSGS sides. During periods of repair or installation, this activity by CLNORM can be inhibited by entering the INH:CLNORM,FPC and/or the INH:CLNORM,CMP input message.

2. FORMAT

```
SW:FPC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of this manual for a list of possible reasons for denying the request.
PF	= Printout follows. The request was accepted. An SW:FPC output message follows.
RL	= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:CLNORM
INH:CLNORM
OP:CFGSTAT
```

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```
RST:FPC
```

Output Message(s):

```
OP:CFGSTAT-CM
RST:FPC
SW:FPC
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)

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SW:GDXCON

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint controller (GDXCON) be switched from the standby to the active state.

To allow a switch, the configuration of the GDXCONs must be active-standby; the message does not work for other configurations (such as unavailable and out-of-service).

2. FORMAT

```
SW:GDXCON=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by SW:GDXCON output message.

5. REFERENCES

Output Message(s):

`SW:GDXCON`

Input Appendix(es):

`APP:RANGES`

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SW:IDCU

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby integrated digital carrier unit (IDCU) service group circuits be switched (interchanged).

2. FORMAT

```
SW:IDCU=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. An SW:IDCU output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:IDCU`

Output Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

186x (IDCU CIRCUIT)

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SW:IDCUEOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

2. FORMAT

```
SW:IDCUEOC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the switch. Will perform a forced switch when one EOC is active and the other is standby or out of service as long as the EOC being switched to is available.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. An SW:IDCUEOC output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:IDCUEOC`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):

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235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)

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SW:IDCUTMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a integrated digital carrier unit (IDCU).

2. FORMAT

```
SW:IDCUTMC=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the switch. Will perform a forced switch when one TMC is active and other is standby or out of service as long as the TMC being switched to is available.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the SW:IDCUTMC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:IDCUTMC`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):

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235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)

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SW:ISLUCC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of the integrated services line unit common controller (ISLUCC) be switched (interchanged).

Note: Both controllers must be in service before this message will be honored.

2. FORMAT

```
SW:ISLUCC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An SW:ISLUCC output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:ISLUCC`

Output Appendix(es):

`APP:RANGES`

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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SW:ISLUCD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of the integrated services line unit common data (ISLUCD) be switched (interchanged).

2. FORMAT

```
SW:ISLUCD=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. An SW:ISLUCD output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:ISLUCD`

Output Appendix(es):

`APP:RANGES`

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)

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SW:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby of an inter-working gateway link interface (IWGLI) be switched (interchanged).

2. FORMAT

```
SW:IWGLI=a-b-c
```

3. EXPLANATION OF MESSAGE

`a` = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the SW:IWGLI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:IWGLI
DGN:IWGLI
RMV:IWGLI
RST:IWGLI
STP:IWGLI
```

Output Message(s):

```
SW:IWGLI
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1340,y (IWG)

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SW:LUCOMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the selection of line unit common data and control (LUCOMC) circuits for gated diode crosspoint (GDX) control be switched.

For this message to be executed, the configuration of the LUCOMCs must be active/active; the message does not work for other configurations (such as active and out-of-service).

2. FORMAT

```
SW:LUCOMC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `SM DOES NOT EXIST` = The message syntax is valid, but the requested SM is not in the system.
- `SM UNEQUIPPED` = The message syntax is valid, but the requested SM is unequipped.
- `UNIT DOES NOT EXIST` = The message syntax is valid, but the requested unit is not in the system.

`PF` = Printout follows. Followed by the SW:LUCOMC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources resulting in loss of communication to the requested switching module.

5. REFERENCES

Output Message(s):

`SW:LUCOMC`

Input Appendix(es):

`APP:RANGES`

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SW:MCTSI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a module controller/time slot interchange (MCTSI) be switched from standby to active.

To allow a switch, the configuration of the module controller/time slot interchanges (MCTSIs) must be active-standby; the message does not work for other configurations (such as unavailable and out-of-service).

2. FORMAT

```
SW:MCTSI=a;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the SW:MCTSI output message.

5. REFERENCES

Output Message(s):

`SW:MCTSI`

Input Appendix(es):

`APP:RANGES`

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SW:MHD

Software Release: 5E15 and later
Command Group: AM
Application: 5
Type: Input

1. PURPOSE

Requests a software switch of the logical names of the moving head disks (MHDs). This message allows any two MHDs in the office to swap identity for the purpose of file access. This allows disk memory to be remotely configured should a disk fail in an unstaffed office.

For example, if MHD 1; had a failure and the office had a spare MHD connected into the system as MHD 15, the two could swap identity with by entering:

```
SW:MHD=1:MHD=15;
```

After this message completes, MHD 15 will act as if it were MHD 1; for the purpose of file access. When MHD 15 is restored to service, it will get a copy of MHD 0 files, and MHD 0 and MHD 15 will be the primary duplex MHD pair.

Any time a primary MHD needs to be swapped, the ideal choice would be to swap it with the warm spare on the same disk file controller (DFC). For example, the superior swap choice for MHD 0 would be MHD 14, and the choice for MHD 1; would be MHD 15. This would prevent both primary disks from depending on the same DFC. If there are no warm spares available for swapping, then another MHD can be selected.

The system can continue to operate for an indefinite time with a reconfiguration in effect. Because the reconfiguration consists of equipment configuration data base (ECD) changes, care should be taken so that an incore activate does not copy the changes to disk. However, because the reconfiguration is incore only, a level 53 or higher boot will restore the original MHD configuration.

If both MHD 0 and MHD 1; have been swapped, the system will most likely NOT recover from a level* or higher boot. You should avoid this configuration, if possible.

Format 1 is used to swap an MHD with either a specified MHD or a system-selected MHD. (If both MHDs are specified, then they both must be out-of-service (OOS)).

Format 2 is used to restore either a specified MHD or all MHDs to their standard configuration.

2. FORMAT

```
[1]    SW:MHD=a:[MHD=b|REPLACE];

[2]    SW:MHD=[c|ALL]:STANDARD;
```

3. EXPLANATION OF MESSAGE

`ALL` = Restore all MHDs in the office.

`REPLACE` = System selected MHD to be substituted.

`a` = Number of the MHD to be replaced, typically the faulty OOS device. Refer to the

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APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Number of the MHD to be substituted. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Number of the MHD to have its configuration restored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
-CAN'T SWITCH MHD WITH ITSELF = MHD 'a' cannot be the same value as MHD 'b'.

PF = Printout follows. The message was accepted. Followed by one or more REPT:SW-MHD output messages. If either MHD is marked essential, then degrowth and growth messages will also follow.

RL = Retry later. May also include:
- PREVIOUS 'SW:MHD' COMMAND IN PROGRESS = The message was accepted, and one or more REPT:SW-MHD output.
- PREVIOUS COMMAND IN PROGRESS = System is unable to honor an additional request at this time.

5. REFERENCES

Input Message(s):

OP:MHD-CFG

Output Message(s):

OP:MHD
REPT:MHD-CONFIG
REPT:SW-MHD

Input Appendix(es):

APP:RANGES

Other Manual(s):

Where 'x' is the release-specific version of the document.

APP:RANGES

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SW:NCOSC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Switches the active network clock oscillator (NCOSC) to the specified side. Valid for network clock (NC) model 2 or 3.
For NC model 2: The command may be applied when both oscillators are active.
For NC model 3: The command will only be accepted when the oscillators are in an ACTIVE/STANDBY configuration. This configuration only exists when the ONTCs are simplexed, since when the ONTCs are duplexed, each ONTC side uses its respective near oscillator and the oscillator states are ACTIVE/ACTIVE. When the ONTCs are simplexed and neither oscillator is out of service, the ONTC will use the ACTIVE oscillator and the other one will be in the STANDBY state. This command can be used to switch the ACTIVE/STANDBY configuration by specifying the STANDBY oscillator in the command.

2. FORMAT

```
SW:NCOSC=a;
```

3. EXPLANATION OF MESSAGE

`a` = Network clock unit side for which the switch of active oscillator unit is requested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

`OK` = Good. The request was accepted and completed.

`PF` = Printout follows. Followed by the SW:NCOSC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RST:NCOSC
```

Output Message(s):

```
REPT:NC
```

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```
SW:NCOSC
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

MCC Display Page(s):

1210(NETWORK CLOCK)
1211(NETWORK CLOCK REFERENCES)

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SW:NCREF

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a network clock reference (NCREF) be switched to the specified clock reference source. This reference switch will occur on both clock sides as a result of this message.

2. FORMAT

```
SW:NCREF,a[,TYPE=b];
```

3. EXPLANATION OF MESSAGE

a = Network clock reference requested to be made active.

NC1	NC2 or NC3
PRIM Primary reference. SEC Secondary reference.	REFn Reference number, n=1-8.

b = Reference Type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. The values are:

- 10M = 10 MHz analog clock reference.
- 2M = 2.048 MHz analog clock reference.
- CC = 64K Composite clock reference.
- DGTL = Digital clock reference.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. The request has been received. Followed by the SW:NCREF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RST:NCREF
```

Output Message(s):

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```
SW:NCREF
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)

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SW:OFLBOOT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

To perform a call processing side switch. This input message may be used only after a `REPT OFLBOOT BOOT COMPLETED` message has been received.

This input message may be used to switch call processing to the other side. After the switch, call processing is handled by the new on-line side, and the previous on-line side becomes the off-line side. The system remains split. A STOP:OFLBOOT is needed to return to duplex configuration. There are some restrictions the user must follow for this input message to execute successfully:

- There should be no diagnostic activities running.
- The maintenance teletypewriter (MTTY) and receive-only printer (ROP) port selector switches must be in the AUTO position and the portswitch controller must be powered on.

2. FORMAT

```
SW:OFLBOOT:[, UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = If specified, some application precheck results will be overridden. The *UNIX*® RTR precheck results will not be overridden. The default is enforce all precheck results.

4. SYSTEM RESPONSE

`IP` = In progress.

`?A` = Action field error.

`?E` = Error exists in the message.

`?I` = Identification field error.

5. REFERENCES

Input Message(s):

```
EXC:OFLBOOT
STOP:OFLBOOT
```

Output Message(s):

```
EXC:OFLBOOT
```

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```
REPT:OFLBOOT
STOP:OFLBOOT
SW:OFLBOOT
```

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SW:ONTC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the activity of the office network and timing complex (ONTC) be switched. Both ONTC and ONTC 1; must be in service to perform a switch.

WARNING: This message may be service affecting. If the ONTC is unconditionally switched, switching modules may become isolated. If this message is used without the UCL option, checks will be made to insure that switching the ONTC will not affect service.

2. FORMAT

```
SW:ONTC[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Switch the ONTC unconditionally. This option can be used to switch ONTC sides when the ACT MINOR side is degraded. Refer to the WARNING in the Purpose section before using this option.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
RST:ONTC
```

Input Appendix(es):

```
APP:CM-IM-REASON
```

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Output Message(s):

```
OP:CFGSTAT
RST:ONTC
SW:ONTC
```

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SW:PHGRP

Software Release: 5E19(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Request that the serving/nonserving states of a protocol handler (PH) group (PHGRP) can be switched.

2. FORMAT

```
SW:PHGRP=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PH group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equippage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of the Input Messages manual.

`PF` = Printout follows. Followed by the SW:PHGRP output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:PHGRP`

Input Appendix(es):

`APP:RANGES`
`APP:SYS-RESPONSE`

MCC Display Page(s):
1188,b,y,a PH GROUP STATUS (where b=PSU number, y=Screen number, and a=SM number)

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SW:PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of a PCTFI (Peripheral Control and Timing Facility Interface) be switched (interchanged). This command is honored only if the PCT links are in ACT/STBY configuration.

2. FORMAT

```
SW:PLTLK=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Valid values are:
- `REASON FOR NG` = The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. A SW PLTLK output message follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

```
ABT:PLTLK
DGN:PLTLK
STP:PLTLK
RMV:PLTLK
RST:PLTLK
```

Output Message(s):

```
SW:PLTLK
```

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Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1430 (PLTU Status page)

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SW:PORTSW

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a switch of the maintenance teletypewriter controller's (MTTYC's) receive-only printer (ROP) and/or maintenance teletypewriter (MTTY) to the alternate MTTYC and a switch of the active/standby status of the MTTY and/or ROP. The switch can succeed only if the alternate MTTYC and its MTTY and/or ROP are in an acceptable state. If no switchable device is specified, both the MTTY and ROP are switched to the alternate MTTYC.

2. FORMAT

```
SW:PORTSW[,a];
```

3. EXPLANATION OF MESSAGE

`a` = Port switchable subdevice name (MTTY or ROP).

4. SYSTEM RESPONSE

`NG` = No good. Bad open on equipment configuration database (ECD) or the subdevice must be MTTY or ROP.

`PF` = Printout follows. Followed by the SW:PORTSW output message.

`?I` = Extra keywords.

5. REFERENCES

Output Message(s):

`SW:PORTSW`

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)

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SW:PPC

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the activity of the pump peripheral controller (PPC) be switched. The PPCs must be active standby to allow a switch.

Note: A switch PPC request will be denied if the active PPC is currently being used to pump an SM.

2. FORMAT

```
SW:PPC;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The message was invalid.

`PF` = Printout follows. Followed by the SW:PPC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
OP:CFGSTAT
RST:PPC
```

Output Message(s):

```
OP:CFGSTAT-CM
RST:PPC
SW:PPC
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

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1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)

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SW:PSALNK

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Request that the active/standby states of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) channels be switched.

2. FORMAT

```
SW:PSALNK=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ATM link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equippage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of the Input Messages manual.

`PF` = Printout follows. Followed by the SW:PSALNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
CLR:PSALNK
SET:PSALNK
```

Output Message(s):

```
SW:PSALNK
```

Input Appendix(es):

```
APP:RANGES
```

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```
APP:SYS-RESPONSE
```

MCC Display Page(s):
1187,y,x PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)

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SW:PSLNK-A

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Request that the active/standby states of the packet switch unit (PSU) link (PSLNK) channels be switched.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU quipment number and must always be entered as PSU CA. NOTE: For gateway protocol handlers (PH) the only valid input message format is #4. Other formats will not yield the expected results.

2. FORMAT

```
[1]    SW:PSLNK=a-b;

[2]    SW:PSLNK,PSUCA=a,FARCA=b;

[3]    SW:PSLNK,PSU=c-0,FARCA=b;

[4]    SW:PSLNK,PSUCA=a;
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link.

`b` = Far PSU community address of the PSU link.

Note: The far end CA must be zero if the PSU link is connected to an asynchronous transfer mode (ATM) switch in a point-to-multipoint configuration network.

c = Switching module (SM) number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equippage or status.

`PF` = Printout follows. Followed by the SW:PSLNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

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```
CLR:PSLNK
SET:PSLNK
```

Output Message(s):

```
SW:PSLNK
```

MCC Display Page(s):

PSU LINKS STATUS

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SW:PSLNK-B

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Request that the active/standby states of the packet switch unit (PSU) link (PSLNK) channels be switched.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

2. FORMAT

```
[1]    SW:PSLNK=a-b;
       _____________________________________________________________

[2]    SW:PSLNK,PSUCA=a,FARCA=b;
       _____________________________________________________________

[3]    SW:PSLNK,PSU=c-d,FARCA=b;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Near PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Far PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

NOTE: The far end CA must be zero if the PSU link is connected to an asynchronous transfer mode (ATM) switch in a point-to-multipoint configuration network.

`c` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equippage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

`PF` = Printout follows. Followed by the SW:PSLNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

```
CLR:PSLNK
SET:PSLNK
```

Output Message(s):

```
SW:PSLNK
```

MCC Display Page(s):
1187,y PSU LINKS STATUS (where y=PSU number)

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SW:PSUCOM-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of the packet switch unit (PSU) common controllers (COM) be switched (interchanged).

2. FORMAT

```
SW:PSUCOM=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the SW:PSU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:PSUCOM`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

118x (PSU SHELF)
1186 (PSU NETWORK)

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SW:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of the packet switch unit (PSU) common controllers (COM) be switched (interchanged).

2. FORMAT

```
SW:PSUCOM=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by the SW:PSU output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:PSUCOM`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

PSU SHELF
PSU NETWORK

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SW:PSUPH

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of the packet switch unit (PSU) protocol handlers (PH) be switched.

2. FORMAT

```
SW:PSUPH=a-b-c-d[,GRP=e];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = PH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. An SW:PSUPH output message will follow.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:PSUPH`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

118x (PSU SHELF)

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SW:QLPS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests activation of a standby quad-link packet switch (QLPS) processor.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls/reduction in call processing capacity. Use with extreme caution!

2. FORMAT

```
SW:QLPS=a-b[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Switch QLPS network unconditionally. Although this option cannot override the primary criteria not to increase the number of switching module-2000s (SM-2000s) which are isolated from both QLPS networks or all QGPs (if equipped), it is possible to reduce messaging capacity or enter overload, which would impact call processing.

`a` = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Note that this argument is required only to be consistent with other QLPS requests; irrespective of the 0 or 1 entry, an attempt will be made to switch QLPSs in the network designated by field '`b`'.

`b` = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message syntax was valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF` = Printout follows.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

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```
SW:QLPS
```

Input Appendix(es):

```
APP:CM-IM-REASON
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-105-250 *System Recovery Procedures*

MCC Display Page(s):

1209 (ONTC 0 & 1)
1380, 1381 (QLPS NETWORK STATUS)

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SW:RCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the status of active and standby remote clock (RCLK) circuits be switched.

2. FORMAT

```
SW:RCLK=a;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the SW:RCLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:RCLK`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1170 (RSM RCLK)

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SW:RCOSC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the switch of active remote clock oscillators (RCOSC) to the specified remote clock (RCLK) side. This is not actually switching the RCOSC, but is switching the RCLK timing source.

2. FORMAT

```
SW:RCOSC=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the SW:RCOSC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:RCOSC
RST:RCOSC
```

Output Message(s):

```
SW:RCOSC
```

Input Appendix(es):

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```
APP:RANGES
```

MCC Display Page(s):

1170 (RSM RCLK)

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SW:RCREF

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an active remote clock reference (RCREF) be switched to the specified clock reference.

2. FORMAT

```
SW:RCREF=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Equipped reference number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NOT STARTED UNIT IN GROWTH STATE`
- `SM DOES NOT EXIST`
- `SM UNEQUIPPED`
- `UNIT DOES NOT EXIST`

`PF` = Printout follows. Followed by the SW:RCREF output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:RCREF`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

1170 (RSM RCLK)

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SW:RLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that activity of the remote switching module (RSM) remote link interface (RLI) circuit be switched. This message is honored only if the RLI controllers are in an active/standby configuration.

2. FORMAT

```
SW:RLI=a-b;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The standby controller is made active regardless of this variable.

4. SYSTEM RESPONSE

`NG` = No good. Request denied because of a conflict with current status.

`PF` = Printout follows. Followed by the SW:RLI output message.

5. REFERENCES

Output Message(s):

`SW:RLI`

Input Appendix(es):

`APP:RANGES`

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SW:RRCLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of the remote integrated services line unit (RISLU) remote clock circuit packs (RRCLKs) be switched (interchanged).

Note: Both RRCLK packs must be in service before this message will be honored.

2. FORMAT

```
SW:RRCLK=a-b[,SCREEN=c];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Although this option is syntactically correct, it is set internally for cross checking purposes and values entered here will be ignored.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

`PF` = Printout follows. Followed by the SW:RRCLK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`RMV:RRCLK`

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

145y,x (RISLU DLTU)

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SW:RT-EOC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
SW:RT,EOC=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the switch. Will perform a forced switch when one EOC is active and the other is standby or out of service as long as the EOC being switched to is available.

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the SW:RT-EOC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
SW:RT-EOC
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

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1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)

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SW:RT-TMC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

```
SW:RT,TMC=a[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally execute the switch. Will perform a forced switch when one TMC is active and the other is standby or out of service as long as the TMC being switched to is available.

`a` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current status.

`PF` = Printout follows. Followed by the SW:RT-TMC output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:RT-TMC`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

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1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)

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SW:SERV

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the that the service selection of a processor group be switched.

A service selection switch is only allowed when one processor in the processor group is SERVING and the other is NON-SERVING. If a processor group is equipped with only one processor, a manual switch is not permitted.

2. FORMAT

```
SW:SERV,{PCRGRP=a-b|PSUPH=a-c-d-e};
```

3. EXPLANATION OF MESSAGE

`a` = Global services module (GSM) on which the processor group is equipped.

`b` = Processor group.

`c` = Packet switching unit (PSU) number.

`d` = PSU shelf number.

`e` = PH position number.

4. SYSTEM RESPONSE

`?D` = Input data error.
`PF` = Printout follows.
`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
RMV:PSUPH
```

Output Message(s):

```
SW:SERV
```

Input Appendix(es):

```
APP:RANGES
```

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SW:SFI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) STSX-1 facility interface (SFI) be switched (interchanged).

WARNING: A switch of an SFI will generate transient errors on the facilities.

2. FORMAT

```
SW:SFI=a-b-c[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = This option is required for an SFI switch since all facilities for the entire data group will be affected.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message form is valid, but the request conflicts with the current status.

`PF` = Printout follows. Followed by the SW:SFI output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

`SW:SFI`

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1510 (DNUS STATUS)

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78. TELL

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TELL:LIB

Software Release: 5E15 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Provides the data string entered to the specified library program(s). No modification is made to the message. The library program is responsible for accepting the message from the library client supervisor, and acting on it as desired.

2. FORMAT

```
TELL:LIB:TEAM=a[,AM][{,SM=b[-b][-b][-b][-b]|,SM=c&&d}],DATA=e;
```

3. EXPLANATION OF MESSAGE

`AM` = Send the data to the library program running in the administrative module (AM) under this team.

`a` = The team number (1-15) to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.

`b` = Switching module (SM) number(s) to which the data is to be sent. A range could be used instead, as indicated.

`c` = Lower limit of a range of SM numbers.

`d` = Upper limit of a range of SM numbers.

Note: If neither the AM or any SMs are specified, the TELL:LIB message is sent to the AM and all SMs with clients loaded under the same team as that specified.

`e` = The string of data to be passed to the client program.

4. SYSTEM RESPONSE

`NG` = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

`PF` = Printout follows. Message has been sent to the SMs/AM or TEAM specified.

5. REFERENCES

Output Message(s):

`TELL:LIB`

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79. TRC

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TRC:CLID

Software Release: 5E15 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests that a directory number (DN) be added to or deleted from the calling line identification (CLID) list.

Note: The CLID list contains directory numbers outside the office. When a call is made to a listed DN, the originating DN will be identified.

2. FORMAT

```
TRC:CLID:{ADD|DEL},DN=a;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym Section of the Input Messages manual for the full expansion of any acronyms shown in the format.

`a` = Directory number to be added to or deleted from the CLID list.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `DUPLICATE DN` = The number being added is already on the CLID list.
- `INCORRECT STATE, USE ADD OR DEL` = ADD enters the DN on the CLID list. DEL deletes the DN from the CLID list.
- `LIST EMPTY` = The CLID list does not contain any DNs.
- `LIST FULL` = CLID list is full. Remove one of the numbers on the CLID list to add a new DN.
- `REENTER DN WITH NPA` = The Office Code (NXX), is in multiple Numbering Plan Areas (NPA). Reenter the DN with an NPA.
- `UNKNOWN DN` = The number being deleted is not on the CLID list.

`OK` = Good. The request has been accepted and completed.

5. REFERENCES

Input Message(s):

```
OP:CLID
```

Output Message(s):

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```
TRC:IPCT-EVENT
TRC:IPCT-FAILED
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-190-102 *Business and Residence Non-Modular Features*

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TRC:IPCT

Software Release: 5E15 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests an in-progress call trace (IPCT) by using either the directory number (DN), the multiline hunt group and member number (MLHG), the trunk group and member number (TKGMN), the process ID (PID), or the origination point code, destination point code, and raw call instance code (OPCDPC) of the party to be traced.

For shared DN, only the primary DN will be traced. For MLHG, only the primary MLHG member will be traced. If DN corresponds to a line time slot bridging (LTSB) port, the call controller will be traced. For non-end trace (END=n), IPCT will only trace the call up to the intermodule trunk (IMT) if the call goes through an IMT. IPCT does not apply to Direct Inward Dialing (DID) trunks because the trunk group and member number of DID trunks map to a group of ports, not to an individual port.

2. FORMAT

```
[1]    TRC:IPCT:{DN=a|MLHG=b-c|TKGMN=d-e}[,HARDHOLD][,END=f];

[2]    TRC:IPCT:PID=g-h-i[,END=f];

[3]    TRC:IPCT:OPCDPC=j-k-l;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym Section of the Input Messages manual for the full expansion of any acronyms shown in the format.

`HARDHOLD` = Call trace option for hardhold call. Default is for non-hardhold call trace.

`a` = DN of the line to be traced.

`b` = Group number of the multi-line hunt group of the line to be traced.

`c` = Member number of the multi-line hunt group of the line to be traced.

`d` = Trunk group of the trunk to be traced.

`e` = Member number of the trunk to be traced.

`f` = End trace flag. Valid value(s):
- `y` = End trace through IMT (default).
- `n` = Non-end trace.

`g` = Process number of the PID.

`h` = Switching module (SM) number of the PID.

`i` = Uniqueness number of the PID.

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`j` = Asynchronous Transfer Mode (ATM) origination point code (OPC) number.

`k` = ATM destination point code (DPC) number.

`l` = ATM raw call instance code (RCIC) number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the TRC:IPCT output message. May also include:
- `EVENT n` = The trace request (identified by the event number 'n') has been accepted, and the specified line will be traced.

5. REFERENCES

Output Message(s):

```
TRC:IPCT-EVENT
TRC:IPCT-FAILED
```

Other Manual(s):
235-105-220 *Corrective Maintenance*
235-190-115 *Local and Toll System Features*

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TRC:UTIL-A

Software Release: 5E15 - 5E16(1)
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. FORMAT

```
[1]   TRC:UTIL:{DN=a|MLHG=b-c}[[,CH=r][,PKT]|[,SA={o1|ALL}]|
      [,CID={n|ALL}]|[,HARDHOLD]|[,DDS=z]];

[2]   TRC:UTIL:{LEN=d-e-f-g-h-i|SLEN=d-k-l-m|CKT=d-f1|TS=d-h1|
      LUCHAN=d-e-w-m1-n1}[,HARDHOLD];

[3]   TRC:UTIL:{TKGMN=b-c|DEN=d-a1-b1-c1}[,PKT];

[4]   TRC:UTIL:{PID=j-d-l1|TEN=d-v-w-x-y|NEN=d-e1-g1-b2-i1-c2-j1-k1|
      RAF=d-s-t|SAS=d-s-t};

[5]   TRC:UTIL:LCEN=d-e-w1-q[[,CH=r][,PKT]|[,HARDHOLD]];

[6]   TRC:UTIL:LCKEN=d-x1-p-v1-y1[[,CH=r][,PKT]|[,HARDHOLD]];

[7]   TRC:UTIL:ILEN=d-o-l-m[[,CH=r][,PKT]|[,HARDHOLD]|[,DDS=z]];

[8]   TRC:UTIL:PORT=d-d1[[,PKT]|[,HARDHOLD]|[,DDS=z]];

[9]   TRC:UTIL:BST=p1-q1[,CH={D|B1}];

[10]  TRC:UTIL:OPT=p1-q1[,LOOP=u][,CH={D|B1}];

[11]  TRC:UTIL:PSUEN=d-r1-s1-t1-u1;

[12]  TRC:UTIL:INEN=d-e1-z1-a2[[,CH=r][,PKT]|[,HARDHOLD]|[,DDS=z]];

[13]  TRC:UTIL:PLTEN=d-d2-e2-f2-c1;

[14]  TRC:UTIL:OPCDPC=g2-h2-i2;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

HARDHOLD = Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.

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`PKT` = Packet utility call trace request. Default is non-packet utility call trace.

`a` = DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.

`b` = Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Process number of the PID.

`k` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = ID number of call on DN or MLHG (0-31). When 'ALL' is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

`o` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Channel identifier. Valid value(s):

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B1

B2

D (default)

s = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

v = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

a[1] = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d[1] = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES

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appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Virtual Tributary Member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Uniqueness number of the PID.

`m`[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Channel circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = SA number of DN or MLHG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When 'ALL' is specified, all busy SAs of this DN or MLHG are listed. This option can only be used with a DN or MLHG that uses sub-addresses.

`p`[1] = Operator service center (OSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Remote digital terminal (RDT) number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`a`[2] = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = Signaling terminal equipement (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] =PCT line and trunk (virtual) unit number (PLTU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = PCT facility interface number (PCTFI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = The PCT tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Bearer Independant Call Control (BICC) origination point code (OPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = BICC destination point code (DPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[2] = BICC raw call instance code (RCIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. Includes one of the following:

- `BAD CHANNEL` = A channel type was specified on an analog line or a trunk.
- `BAD OPTION` = Incompatible options were selected.
- `BAD SA/ID` = A bad sub-address or ID number was specified.
- `CIRCUIT DESCRIPTOR` = A bad universal tone decoder (UTD), universal tone generator (UTG), LUCHAN, or CKT input was specified.
- `IDLE SA/ID` = The traced sub-address or ID was idle.
- `INTERNAL ERROR` = Undetermined errors, possibly a software bug. Retry the request at a later time. This response may be accompanied by an assert.
- `NOT PRIMARY DN/MLHG` = The traced DN or MLHG is not primary on any terminal. Either input the primary DN/MLHG of the terminal you wish to trace or specify an SA number for this DN/MLHG.
- `NOT PACKET` = The PKT option was requested on a non-packet call.
- `PORT DESCRIPTOR` = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or PORT description was specified.
- `REENTER DN WITH NPA` = The office code (NXX), is in multiple numbering plan areas (NPA). Reenter the DN with an NPA.
- `SA/ID NOT ALLOWED` = A sub-address or ID number was specified on a line that does not use them.

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- SM NOT OPERATIONAL = The SM where the trace should begin is not operational.
- TRACE NOT SUPPORTED ON SPECIFIED PORT = Traced port not supported.
- UNKNOWN INPUT = Input was not recognized.

OK = Okay. Includes the following:
- SEE STATUS PAGE = All sub-addresses or IDs for the DN or MLHG have been traced. The results are displayed on the TRACEABLE CALL STATUS MCC Display Page.

PF = Printout follows. Includes the following:
- EVENT n = The trace event (identified by the number 'n') has been accepted and is being processed. One or more TRC:UTIL output messages will follow.

RL = Retry later. Includes one of the following:
- MSG = Unable to send the message that starts the trace.
- TIMER = Unable to set a timer.
- TRACE IN PROGRESS = A trace is currently in progress.

5. REFERENCES

Input Message(s):

OP:TRC

Output Message(s):

TRC:UTIL-4WLN
TRC:UTIL-CONF
TRC:UTIL-FAILED
TRC:UTIL-HSM
TRC:UTIL-IDLE
TRC:UTIL-LINE
TRC:UTIL-LINK
TRC:UTIL-PID
TRC:UTIL-TRK

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

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131-132 (CALL TRACE MENU)
133-138 (HARDWARE CALL TRACE - 1 THROUGH 6)
139 (ISDN PACKET SWITCH CALL TRACE)
140 (HARDWARE CALL TRACE)
150 (TRACEABLE CALL STATUS)
151 (CONFERENCE CIRCUIT TRACE)

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TRC:UTIL-B

Software Release: 5E16(2) only
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. FORMAT

```
[1]   TRC:UTIL:{DN=a|MLHG=b-c}[[,CH=r][,PKT]|[,SA={o1|ALL}]|. . .
      . . .[,CID={n|ALL}]|[,HARDHOLD]|[,DDS=z]];
      ____________________________________________________________

[2]   TRC:UTIL:{LEN=d-e-f-g-h-i|SLEN=d-k-l-m|CKT=d-f1|TS=d-h1|. . .
      . . .LUCHAN=d-e-w-m1-n1}[,HARDHOLD];
      ____________________________________________________________

[3]   TRC:UTIL:{TKGMN=b-c|DEN=d-a1-b1-c1}[,PKT];
      ____________________________________________________________

[4]   TRC:UTIL:{PID=j-d-l1|TEN=d-v-w-x-y|NEN=d-e1-g1-b2-i1-c2-j1-k1|. . .
      . . .RAF=d-s-t|SAS=d-s-t};
      ____________________________________________________________

[5]   TRC:UTIL:LCEN=d-e-w1-q[[,CH=r][,PKT]|[,HARDHOLD]];
      ____________________________________________________________

[6]   TRC:UTIL:LCKEN=d-x1-p-v1-y1[[,CH=r][,PKT]|[,HARDHOLD]];
      ____________________________________________________________

[7]   TRC:UTIL:ILEN=d-o-l-m[[,CH=r][,PKT]|[,HARDHOLD]|[,DDS=z]];
      ____________________________________________________________

[8]   TRC:UTIL:PORT=d-d1[[,PKT]|[,HARDHOLD]|[,DDS=z]];
      ____________________________________________________________

[9]   TRC:UTIL:BST=p1-q1[,CH={D|B1}];
      ____________________________________________________________

[10]  TRC:UTIL:OPT=p1-q1[,LOOP=u][,CH={D|B1}];
      ____________________________________________________________

[11]  TRC:UTIL:PSUEN=d-r1-s1-t1-u1;
      ____________________________________________________________

[12]  TRC:UTIL:INEN=d-e1-z1-a2[[,CH=r][,PKT]|. . .
      . . .[,HARDHOLD]|[,DDS=z]];
      ____________________________________________________________
```

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```
[13]   TRC:UTIL:PLTEN=d-d2-e2-f2-c1;
       _____________________________________________________________

[14]   TRC:UTIL:OPCDPC=g2-h2-i2;
       _____________________________________________________________

[15]   TRC:UTIL:OIUEN=d-j2-k2-l2-m2-c2-j1-k1;
       _____________________________________________________________

[16]   TRC:UTIL:OIUUDP=d-j2-k2-n2-o2-p2;
       _____________________________________________________________

[17]   TRC:UTIL:LTAG=q2-r2-s2-t2-u2;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`HARDHOLD` = Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.

`PKT` = Packet utility call trace request. Default is non-packet utility call trace.

`a` = DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.

`b` = Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`j` = Process number of the PID.

`k` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = ID number of call on DN or MLHG (0-31). When 'ALL' is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

`o` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Channel identifier. Valid value(s):

`B1`
`B2`
`D` (default)

`s` = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

`v` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

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`a`[1] = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Uniqueness number of the PID.

`m`[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Channel circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = SA number of DN or MLHG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When 'ALL' is specified, all busy SAs of this DN or MLHG are listed. This option can only be used with a DN or MLHG that uses sub-addresses.

`p`[1] = Operator service center (OSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`s`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Remote digital terminal (RDT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = SONET terminal equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = PCT line and trunk (virtual) unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = The PCT tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Bearer independent call control (BICC) origination point code (OPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = BICC destination point code (DPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[2] = BICC raw call instance code (RCIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`k`[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[2] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[2] = STS level 1 (STS-1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[2] = Optical carrier - level 3 (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[2] = Synchronous transport signal - level 3 (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[2] = User datagram protocol (UDP) source port.

`q`[2] = Session initiation protocol (SIP) global SM (GSM) index.

`r`[2] = Processor group (PG).

`s`[2] = SIP call processing SM number.

`t`[2] = SIP map index (map IDX).

`u`[2] = SIP process number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `BAD CHANNEL` = A channel type was specified on an analog line or a trunk.
- `BAD OPTION` = Incompatible options were selected.
- `BAD SA/ID` = A bad sub-address or ID number was specified.
- `CIRCUIT DESCRIPTOR` = A bad universal tone decoder (UTD), universal tone generator (UTG), LUCHAN, or CKT input was specified.
- `IDLE SA/ID` = The traced sub-address or ID was idle.
- `INTERNAL ERROR` = Undetermined errors, possibly a software bug. Retry the request at a later time. This response may be accompanied by an assert.
- `NOT PRIMARY DN/MLHG` = The traced DN or MLHG is not primary on any terminal. Either input the primary DN/MLHG of the terminal you wish to trace or specify an SA number for this DN/MLHG.
- `NOT PACKET` = The PKT option was requested on a non-packet call.
- `PORT DESCRIPTOR` = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or PORT description was specified.
- `REENTER DN WITH NPA` = The office code (NXX), is in multiple numbering plan areas (NPA). Reenter the DN with an NPA.
- `SA/ID NOT ALLOWED` = A sub-address or ID number was specified on a line that does not use them.
- `SM NOT OPERATIONAL` = The SM where the trace should begin is not operational.
- `TRACE NOT SUPPORTED ON SPECIFIED PORT` = Traced port not supported.
- `UNKNOWN INPUT` = Input was not recognized.

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`OK` = Okay. May also include:
- `SEE STATUS PAGE` = All sub-addresses or IDs for the DN or MLHG have been traced. The results are displayed on the TRACEABLE CALL STATUS MCC Display Page.

`PF` = Printout follows. May also include:
- `EVENT n` = The trace event (identified by the number '`n`') has been accepted and is being processed. One or more TRC:UTIL output messages will follow.

`RL` = Retry later. May also include:
- `MSG` = Unable to send the message that starts the trace.
- `TIMER` = Unable to set a timer.
- `TRACE IN PROGRESS` = A trace is currently in progress.

5. REFERENCES

Input Message(s):

```
OP:TRC
```

Output Message(s):

```
TRC:UTIL-4WLN
TRC:UTIL-CONF
TRC:UTIL-FAILED
TRC:UTIL-HSM
TRC:UTIL-IDLE
TRC:UTIL-LINE
TRC:UTIL-LINK
TRC:UTIL-PID
TRC:UTIL-TRK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
131-132 CALL TRACE MENU)
133-138 HARDWARE CALL TRACE - 1 THROUGH 6
139 ISDN PACKET SWITCH CALL TRACE
140 HARDWARE CALL TRACE

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150 TRACEABLE CALL STATUS
151 CONFERENCE CIRCUIT TRACE

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TRC:UTIL-C

Software Release: 5E17(1) only
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. FORMAT

```
[1]   TRC:UTIL:{DN=a|MLHG=b-c}[[,CH=r][,PKT]|[,SA={o1|ALL}]|. . .
      . . .[,CID={n|ALL}]|[,HARDHOLD]|[,DDS=z]];
      ____________________________________________________________

[2]   TRC:UTIL:{LEN=d-e-f-g-h-i|SLEN=d-k-l-m|CKT=d-f1|TS=d-h1|. . .
      . . .LUCHAN=d-e-w-m1-n1}[,HARDHOLD];
      ____________________________________________________________

[3]   TRC:UTIL:{TKGMN=b-c|DEN=d-a1-b1-c1}[,PKT];
      ____________________________________________________________

[4]   TRC:UTIL:{PID=j-d-l1|TEN=d-v-w-x-y|NEN=d-e1-g1-b2-i1-c2-j1-k1|. . .
      . . .RAF=d-s-t|SAS=d-s-t};
      ____________________________________________________________

[5]   TRC:UTIL:LCEN=d-e-w1-q[[,CH=r][,PKT]|[,HARDHOLD]];
      ____________________________________________________________

[6]   TRC:UTIL:LCKEN=d-x1-p-v1-y1[[,CH=r][,PKT]|[,HARDHOLD]];
      ____________________________________________________________

[7]   TRC:UTIL:ILEN=d-o-l-m[[,CH=r][,PKT]|[,HARDHOLD]|[,DDS=z]];
      ____________________________________________________________

[8]   TRC:UTIL:PORT=d-d1[[,PKT]|[,HARDHOLD]|[,DDS=z]];
      ____________________________________________________________

[9]   TRC:UTIL:BST=p1-q1[,CH={D|B1}];
      ____________________________________________________________

[10]  TRC:UTIL:OPT=p1-q1[,LOOP=u][,CH={D|B1}];
      ____________________________________________________________

[11]  TRC:UTIL:PSUEN=d-r1-s1-t1-u1;
      ____________________________________________________________

[12]  TRC:UTIL:INEN=d-e1-z1-a2[[,CH=r][,PKT]|. . .
      . . .[,HARDHOLD]|[,DDS=z]];
      ____________________________________________________________
```

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```
[13]   TRC:UTIL:PLTEN=d-d2-e2-f2-c1;
       ____________________________________________________________

[14]   TRC:UTIL:OPCDPC=g2-h2-i2;
       ____________________________________________________________

[15]   TRC:UTIL:OIUEN=d-j2-k2-l2-m2-c2-j1-k1;
       ____________________________________________________________

[16]   TRC:UTIL:OIUUDP=d-j2-k2-n2-o2-p2;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`HARDHOLD` = Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.

`PKT` = Packet utility call trace request. Default is non-packet utility call trace.

`a` = DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.

`b` = Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Process number of the PID.

`k` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`l` = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = ID number of call on DN or MLHG (0-31). When 'ALL' is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

`o` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Channel identifier. Valid value(s):

`B1`
`B2`
`D` (default)

`s` = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

`v` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

`a`[1] = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`b`[1] = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Virtual Tributary Member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Uniqueness number of the PID.

`m`[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Channel circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = SA number of DN or MLHG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When 'ALL' is specified, all busy SAs of this DN or MLHG are listed. This option can only be used with a DN or MLHG that uses sub-addresses.

`p`[1] = Operator service center (OSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`t`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Remote digital terminal (RDT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = SONET terminal equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = PCT line and trunk (virtual) unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = The PCT tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Bearer independent call control (BICC) origination point code (OPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = BICC destination point code (DPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[2] = BICC raw call instance code (RCIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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l[2] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[2] = STS level 1 (STS-1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[2] = Optical carrier - level 3 (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[2] = Synchronous transport signal - level 3 (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[2] = User datagram protocol (UDP) source port.

4. SYSTEM RESPONSE

NG = No good. May also include:
- BAD CHANNEL = A channel type was specified on an analog line or a trunk.
- BAD OPTION = Incompatible options were selected.
- BAD SA/ID = A bad sub-address or ID number was specified.
- CIRCUIT DESCRIPTOR = A bad universal tone decoder (UTD), universal tone generator (UTG), LUCHAN, or CKT input was specified.
- IDLE SA/ID = The traced sub-address or ID was idle.
- INTERNAL ERROR = Undetermined errors, possibly a software bug. Retry the request at a later time. This response may be accompanied by an assert.
- NOT PRIMARY DN/MLHG = The traced DN or MLHG is not primary on any terminal. Either input the primary DN/MLHG of the terminal you wish to trace or specify an SA number for this DN/MLHG.
- NOT PACKET = The PKT option was requested on a non-packet call.
- PORT DESCRIPTOR = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or PORT description was specified.
- REENTER DN WITH NPA = The office code (NXX), is in multiple numbering plan areas (NPA). Reenter the DN with an NPA.
- SA/ID NOT ALLOWED = A sub-address or ID number was specified on a line that does not use them.
- SM NOT OPERATIONAL = The SM where the trace should begin is not operational.
- TRACE NOT SUPPORTED ON SPECIFIED PORT = Traced port not supported.
- UNKNOWN INPUT = Input was not recognized.

OK = Okay. May also include:
- SEE STATUS PAGE = All sub-addresses or IDs for the DN or MLHG have been traced. The results are displayed on the TRACEABLE CALL STATUS MCC Display Page.

PF = Printout follows. May also include:
- EVENT n = The trace event (identified by the number 'n') has been accepted and is being processed. One or more TRC:UTIL output messages will follow.

RL = Retry later. May also include:

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- `MSG` = Unable to send the message that starts the trace.
- `TIMER` = Unable to set a timer.
- `TRACE IN PROGRESS` = A trace is currently in progress.

5. REFERENCES

Input Message(s):

```
OP:TRC
```

Output Message(s):

```
TRC:UTIL-4WLN
TRC:UTIL-CONF
TRC:UTIL-FAILED
TRC:UTIL-HSM
TRC:UTIL-IDLE
TRC:UTIL-LINE
TRC:UTIL-LINK
TRC:UTIL-PID
TRC:UTIL-TRK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110	*System Maintenance Requirements and Tools*
235-105-220	*Corrective Maintenance*
235-190-115	*Local and Toll System Features*

MCC Display Page(s):

131-132	CALL TRACE MENU)
133-138	HARDWARE CALL TRACE - 1 THROUGH 6
139	ISDN PACKET SWITCH CALL TRACE
140	HARDWARE CALL TRACE
150	TRACEABLE CALL STATUS
151	CONFERENCE CIRCUIT TRACE

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TRC:UTIL-D

Software Release: 5E18(1) - 5E19(1)
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. FORMAT

```
[1]    TRC:UTIL:{DN=a|MLHG=b-c}[[,CH=r][,PKT]|[,SA={o1|ALL}]|. . .
       . . .[,CID={n|ALL}]|[,HARDHOLD]|[,DDS=z]];
       ____________________________________________________________

[2]    TRC:UTIL:{LEN=d-e-f-g-h-i|SLEN=d-k-l-m|CKT=d-f1|TS=d-h1|. . .
       . . .LUCHAN=d-e-w-m1-n1}[,HARDHOLD];
       ____________________________________________________________

[3]    TRC:UTIL:{TKGMN=b-c|DEN=d-a1-b1-c1}[,PKT];
       ____________________________________________________________

[4]    TRC:UTIL:{PID=j-d-l1|TEN=d-v-w-x-y|NEN=d-e1-g1-b2-i1-c2-j1-k1|. . .
       . . .RAF=d-s-t|SAS=d-s-t};
       ____________________________________________________________

[5]    TRC:UTIL:LCEN=d-e-w1-q[[,CH=r][,PKT]|[,HARDHOLD]];
       ____________________________________________________________

[6]    TRC:UTIL:LCKEN=d-x1-p-v1-y1[[,CH=r][,PKT]|[,HARDHOLD]];
       ____________________________________________________________

[7]    TRC:UTIL:ILEN=d-o-l-m[[,CH=r][,PKT]|[,HARDHOLD]|[,DDS=z]];
       ____________________________________________________________

[8]    TRC:UTIL:PORT=d-d1[[,PKT]|[,HARDHOLD]|[,DDS=z]];
       ____________________________________________________________

[9]    TRC:UTIL:BST=p1-q1[,CH={D|B1}];
       ____________________________________________________________

[10]   TRC:UTIL:OPT=p1-q1[,LOOP=u][,CH={D|B1}];
       ____________________________________________________________

[11]   TRC:UTIL:PSUEN=d-r1-s1-t1-u1;
       ____________________________________________________________

[12]   TRC:UTIL:INEN=d-e1-z1-a2[[,CH=r][,PKT]|. . .
       . . .[,HARDHOLD]|[,DDS=z]];
       ____________________________________________________________
```

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```
[13]   TRC:UTIL:PLTEN=d-d2-e2-f2-c1;
       _____________________________________________________________

[14]   TRC:UTIL:OPCDPC=g2-h2-i2;
       _____________________________________________________________

[15]   TRC:UTIL:OIUEN=d-j2-k2-l2-m2-c2-j1-k1;
       _____________________________________________________________

[16]   TRC:UTIL:OIUUDP=d-j2-k2-n2-o2-p2;
       _____________________________________________________________

[17]   TRC:UTIL:LTAG=q2-r2-s2-t2-u2;
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`HARDHOLD` = Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.

`PKT` = Packet utility call trace request. Default is non-packet utility call trace.

`a` = DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.

`b` = Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`j` = Process number of the PID.

`k` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = ID number of call on DN or MLHG (0-31). When 'ALL' is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

`o` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Channel identifier. Valid value(s):

`B1`
`B2`
`D` (default)

`s` = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

`v` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

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`a`[1] = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Uniqueness number of the PID.

`m`[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Channel circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = SA number of DN or MLHG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When 'ALL' is specified, all busy SAs of this DN or MLHG are listed. This option can only be used with a DN or MLHG that uses sub-addresses.

`p`[1] = Operator service center (OSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q`[1] = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`s`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Remote digital terminal (RDT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = SONET terminal equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = PCT line and trunk (virtual) unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = The PCT tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Bearer independent call control (BICC) origination point code (OPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = BICC destination point code (DPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[2] = BICC raw call instance code (RCIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`k`[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[2] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[2] = STS level 1 (STS-1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[2] = Optical carrier - level 3 (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[2] = Synchronous transport signal - level 3 (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[2] = User datagram protocol (UDP) source port.

`q`[2] = Session initiation protocol (SIP) global SM (GSM) index.

`r`[2] = Processor group (PG).

`s`[2] = SIP call processing SM number.

`t`[2] = SIP map index (map IDX).

`u`[2] = SIP process number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `BAD CHANNEL` = A channel type was specified on an analog line or a trunk.
- `BAD OPTION` = Incompatible options were selected.
- `BAD SA/ID` = A bad sub-address or ID number was specified.
- `CIRCUIT DESCRIPTOR` = A bad universal tone decoder (UTD), universal tone generator (UTG), LUCHAN, or CKT input was specified.
- `IDLE SA/ID` = The traced sub-address or ID was idle.
- `INTERNAL ERROR` = Undetermined errors, possibly a software bug. Retry the request at a later time. This response may be accompanied by an assert.
- `NOT PRIMARY DN/MLHG` = The traced DN or MLHG is not primary on any terminal. Either input the primary DN/MLHG of the terminal you wish to trace or specify an SA number for this DN/MLHG.
- `NOT PACKET` = The PKT option was requested on a non-packet call.
- `PORT DESCRIPTOR` = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or PORT description was specified.
- `REENTER DN WITH NPA` = The office code (NXX), is in multiple numbering plan areas (NPA). Reenter the DN with an NPA.
- `SA/ID NOT ALLOWED` = A sub-address or ID number was specified on a line that does not use them.
- `SM NOT OPERATIONAL` = The SM where the trace should begin is not operational.
- `TRACE NOT SUPPORTED ON SPECIFIED PORT` = Traced port not supported.
- `UNKNOWN INPUT` = Input was not recognized.

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`OK` = Okay. May also include:
- `SEE STATUS PAGE` = All sub-addresses or IDs for the DN or MLHG have been traced. The results are displayed on the TRACEABLE CALL STATUS MCC Display Page.

`PF` = Printout follows. May also include:
- `EVENT n` = The trace event (identified by the number '`n`') has been accepted and is being processed. One or more TRC:UTIL output messages will follow.

`RL` = Retry later. May also include:
- `MSG` = Unable to send the message that starts the trace.
- `TIMER` = Unable to set a timer.
- `TRACE IN PROGRESS` = A trace is currently in progress.

5. REFERENCES

Input Message(s):

```
OP:TRC
```

Output Message(s):

```
TRC:UTIL-4WLN
TRC:UTIL-CONF
TRC:UTIL-FAILED
TRC:UTIL-HSM
TRC:UTIL-IDLE
TRC:UTIL-LINE
TRC:UTIL-LINK
TRC:UTIL-PID
TRC:UTIL-TRK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):
131-132 CALL TRACE MENU)
133-138 HARDWARE CALL TRACE - 1 THROUGH 6
139 ISDN PACKET SWITCH CALL TRACE
140 HARDWARE CALL TRACE

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150 TRACEABLE CALL STATUS
151 CONFERENCE CIRCUIT TRACE

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TRC:UTIL-E

Software Release: 5E20(1) and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. FORMAT

```
[1]    TRC:UTIL:{DN=a|MLHG=b-c}[[,CH=r][,PKT]|[,SA={o1|ALL}]|. . .
       . . .[,CID={n|ALL}]|[,HARDHOLD]|[,DDS=z]];
       ____________________________________________________________

[2]    TRC:UTIL:{LEN=d-e-f-g-h-i|SLEN=d-k-l-m|CKT=d-f1|TS=d-h1|. . .
       . . .LUCHAN=d-e-w-m1-n1}[,HARDHOLD];
       ____________________________________________________________

[3]    TRC:UTIL:{TKGMN=b-c|DEN=d-a1-b1-c1}[,PKT];
       ____________________________________________________________

[4]    TRC:UTIL:{PID=j-d-l1|TEN=d-v-w-x-y|NEN=d-e1-g1-b2-i1-c2-j1-k1|. . .
       . . .RAF=d-s-t|SAS=d-s-t};
       ____________________________________________________________

[5]    TRC:UTIL:LCEN=d-e-w1-q[[,CH=r][,PKT]|[,HARDHOLD]];
       ____________________________________________________________

[6]    TRC:UTIL:LCKEN=d-x1-p-v1-y1[[,CH=r][,PKT]|[,HARDHOLD]];
       ____________________________________________________________

[7]    TRC:UTIL:ILEN=d-o-l-m[[,CH=r][,PKT]|[,HARDHOLD]|[,DDS=z]];
       ____________________________________________________________

[8]    TRC:UTIL:PORT=d-d1[[,PKT]|[,HARDHOLD]|[,DDS=z]];
       ____________________________________________________________

[9]    TRC:UTIL:BST=p1-q1[,CH={D|B1}];
       ____________________________________________________________

[10]   TRC:UTIL:OPT=p1-q1[,LOOP=u][,CH={D|B1}];
       ____________________________________________________________

[11]   TRC:UTIL:PSUEN=d-r1-s1-t1-u1;
       ____________________________________________________________

[12]   TRC:UTIL:INEN=d-e1-z1-a2[[,CH=r][,PKT]|. . .
       . . .[,HARDHOLD]|[,DDS=z]];
       ____________________________________________________________
```

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```
[13]   TRC:UTIL:PLTEN=d-d2-e2-f2-c1;
       ____________________________________________________________

[14]   TRC:UTIL:OPCDPC=g2-h2-i2;
       ____________________________________________________________

[15]   TRC:UTIL:OIUEN=d-j2-k2-l2-m2-c2-j1-k1;
       ____________________________________________________________

[16]   TRC:UTIL:OIUUDP=d-j2-k2-n2-o2-p2;
       ____________________________________________________________

[17]   TRC:UTIL:LTAG=q2-r2-s2-t2-u2;
       ____________________________________________________________

[18]   TRC:UTIL:CHGPUDP=d-r1-s1-t1-p2;
       ____________________________________________________________

[19]   TRC:UTIL:NPHGPUDP=d-r1-v2-p2;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`HARDHOLD` = Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.

`PKT` = Packet utility call trace request. Default is non-packet utility call trace.

`a` = DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.

`b` = Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`h` = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Process number of the PID.

`k` = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = ID number of call on DN or MLHG (0-31). When 'ALL' is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

`o` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Channel identifier. Valid value(s):

`B1`
`B2`
`D` (default)

`s` = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

`v` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of

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the Input Messages manual.

`y` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

`a`[1] = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = Uniqueness number of the PID.

`m`[1] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Channel circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = SA number of DN or MLHG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When 'ALL' is specified, all busy SAs of this DN or MLHG are listed. This option can only be used with a DN or MLHG that uses sub-addresses.

`p`[1] = Operator service center (OSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`q`[1] = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r`[1] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w`[1] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x`[1] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y`[1] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z`[1] = Remote digital terminal (RDT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[2] = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[2] = SONET terminal equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[2] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[2] = PCT line and trunk (virtual) unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[2] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[2] = The PCT tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[2] = Bearer independent call control (BICC) origination point code (OPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[2] = BICC destination point code (DPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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i[2] = BICC raw call instance code (RCIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[2] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[2] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[2] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[2] = STS level 1 (STS-1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[2] = Optical carrier - level 3 (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[2] = Synchronous transport signal - level 3 (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[2] = User datagram protocol (UDP) source port.

q[2] = Session initiation protocol (SIP) global SM (GSM) index.

r[2] = Processor group (PG).

s[2] = SIP call processing SM number.

t[2] = SIP map index (map IDX).

u[2] = SIP process number.

v[2] = Network protocol handler (NPH) group number.

4. SYSTEM RESPONSE

NG = No good. May also include:
- BAD CHANNEL = A channel type was specified on an analog line or a trunk.
- BAD OPTION = Incompatible options were selected.
- BAD SA/ID = A bad sub-address or ID number was specified.
- CIRCUIT DESCRIPTOR = A bad universal tone decoder (UTD), universal tone generator (UTG), LUCHAN, or CKT input was specified.
- IDLE SA/ID = The traced sub-address or ID was idle.
- INTERNAL ERROR = Undetermined errors, possibly a software bug. Retry the request at a later time. This response may be accompanied by an assert.
- NOT PRIMARY DN/MLHG = The traced DN or MLHG is not primary on any terminal. Either input the primary DN/MLHG of the terminal you wish to trace or specify an SA number for this DN/MLHG.
- NOT PACKET = The PKT option was requested on a non-packet call.
- PORT DESCRIPTOR = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or

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PORT description was specified.
- `REENTER DN WITH NPA` = The office code (NXX), is in multiple numbering plan areas (NPA). Reenter the DN with an NPA.
- `SA/ID NOT ALLOWED` = A sub-address or ID number was specified on a line that does not use them.
- `SM NOT OPERATIONAL` = The SM where the trace should begin is not operational.
- `TRACE NOT SUPPORTED ON SPECIFIED PORT` = Traced port not supported.
- `UNKNOWN INPUT` = Input was not recognized.

`OK` = Okay. May also include:
- `SEE STATUS PAGE` = All sub-addresses or IDs for the DN or MLHG have been traced. The results are displayed on the TRACEABLE CALL STATUS MCC Display Page.

`PF` = Printout follows. May also include:
- `EVENT n` = The trace event (identified by the number '`n`') has been accepted and is being processed. One or more TRC:UTIL output messages will follow.

`RL` = Retry later. May also include:
- `MSG` = Unable to send the message that starts the trace.
- `TIMER` = Unable to set a timer.
- `TRACE IN PROGRESS` = A trace is currently in progress.

5. REFERENCES

Input Message(s):

```
OP:TRC
```

Output Message(s):

```
TRC:UTIL-4WLN
TRC:UTIL-CONF
TRC:UTIL-FAILED
TRC:UTIL-HSM
TRC:UTIL-IDLE
TRC:UTIL-LINE
TRC:UTIL-LINK
TRC:UTIL-PID
TRC:UTIL-TRK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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235-105-220 *Corrective Maintenance*
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

131-132	CALL TRACE MENU)
133-138	HARDWARE CALL TRACE - 1 THROUGH 6
139	ISDN PACKET SWITCH CALL TRACE
140	HARDWARE CALL TRACE
150	TRACEABLE CALL STATUS
151	CONFERENCE CIRCUIT TRACE

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80. TST

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TST:ACPNUM

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the network control point (NCP) and the *5ESS®* switch. In this case the switch is functioning as an action control point (ACP) for the software defined network (SDN) and leased network (LN) using the International Telecommunication Union - Telecommunication, Standardization Sector (ITU-TS) (formerly CCITT) standard transaction capability application part (TCAP) protocol.

2. FORMAT

```
TST:ACPNUM=a,APP=b,ANI=c[,DATARATE=d][,SID=e][,SGD=f];
```

3. EXPLANATION OF MESSAGE

`a` = LN number to be tested. This number must be a string of seven or ten digits, and must fit the template NXXXXXX or NPANXXXXXX.

`b` = Feature application type. Valid value(s):
- `LN` = Leased network.
- `SDN` = Software defined network.

`c` = Ten-digit automatic number identification (ANI) of the calling party, which must have the format NPANXXXXXX.

`d` = Data rate used for integrated services digital network (ISDN) primary rate interface (ISDN-PRI) data call. Valid value(s):
- `VOICE` = Voice (default).
- `64KC` = 64 KPS clear.
- `64KR` = 64 KPS restricted.
- `56KC` = 56 KPS.

`e` = Station identification (SID) for an ISDN-PRI call. This number must have the format NPANXXXXXX.

`f` = Station group designator (SGD), (0-8).

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `- CNI NOT OPERATIONAL` = The test message cannot be sent. The common network interface (CNI) is not operational or is overloaded. Check CNI status and wait at least 10 minutes before requesting another test.
- `- FAILED TO SEND TCAP MESSAGE` = Unable to format query and send message out to

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the network.

- `INVALID INPUT FIELD` = There is either an invalid character for variables '`a`' or '`b`' or an incorrect number of digits. You must input digits at variables '`a`' and '`b`'.

`PF` = Printout follows. The request has been received. Followed by a TST:ACPNUM output message.

`RL` = Retry later. May also include:

- `TEST IN PROGRESS` = A common channel signaling (CCS) test is currently in progress.

5. REFERENCES

Output Message(s):

`TST:ACPNUM`

Other Manual(s):
235-070-100 *Administration and Engineering Guidelines*

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TST:AILS-OLS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an automated inward line screening (AILS) originating line screening (OLS) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent from a call serving Operator Service Position System (OSPS) to a normal serving site OSPS to gather AILS OLS data.

2. FORMAT

```
TST:AILS OLS,CLG=a,SV=b,DPC=c;
```

3. EXPLANATION OF MESSAGE

`a` = Calling number. This is a 10-digit North American number plan (NANP) number.

`b` = AILS software version number. The AILS software version number is used to indicate the current software level for the AILS feature. The AILS software version number is a number from 1 to 99.

`c` = Destination point code. The destination point code is the point code of the normal serving site OSPS that will receive this AILS OLS test query. The destination point code is a 9-digit number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `CNI NOT AVAILABLE` = The test query cannot be sent to the CAS/NCP database because the common network interface (CNI) or CCS7 links are not available.
- `INVALID CALLING NUMBER` = The calling number must be a 10-digit NANP number.

`PF` = Printout follows. The request has been received. Output message TST:AILS-OLS will follow.

`RL` = Retry later. May also include:
- `INTERNAL ERROR` = There was a problem reading the RLDS_APP relation. Refer to RC/V View 8.17 for the subsystem number.
- `TEST IN PROGRESS` = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
```

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```
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:AILS-OLS
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
```

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)

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TST:AILS-TCS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an automated inward line screening (AILS) terminating code screening (TCS) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent from a call serving Operator Service Position System (OSPS) to a normal serving site OSPS to gather AILS TCS data.

2. FORMAT

```
TST:AILS TCS,CLG=a{,CLD|,ICLD}=b[,SSCNUM=c],SV=d,DPC=e;
```

3. EXPLANATION OF MESSAGE

`a` = Calling number. This is a 10-digit North American number plan (NANP) number.

`b` = Called number.

Prefix	Explanation
`CLD=`	This is a 10-digit directory number for a NANP called number.
`ICLD=`	This is a 1- to 3-digit international country code.

`c` = Special services code (SSC) number. This is a 7-digit number (SSC-WXYZ) used for 800 access calls. If this entry is omitted, a default value of 0 (no SSC-WXYZ number) will be used.

`d` = AILS software version number. The AILS software version number is used to indicate the current software level for the AILS feature. The AILS software version number is a number from 1 to 99.

`e` = Destination point code. The destination point code is the point code of the normal serving site OSPS that will receive this AILS TCS test query. The destination point code is a 9-digit number.

4. SYSTEM RESPONSE

`NG` = No good. Includes one of the following:
- `CNI NOT AVAILABLE` = The test query cannot be sent to the CAS/NCP database because the common network interface (CNI) or CCS7 links are not available.
- `INVALID CALLING NUMBER` = The calling number must be a 10-digit NANP number.
- `INVALID CALLED NUMBER` = The called number must be a 10-digit NANP number or a 1 to 3 digit international country code.
- `INVALID SSC-WXYZ NUMBER` = The SSC number must be a 7-digit number.

`PF` = Printout follows. The request has been received. The TST:AILS-TCS output message will follow.

`RL` = Retry later. Includes one of the following:
- `INTERNAL ERROR` = There was a problem reading the RLDS_APP relation. Refer to RC/V View 8.17 for the subsystem number.

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– `TEST IN PROGRESS` = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:AILS-OLS
TST:BNS
TST:CAS
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:AILS-OLS
TST:AILS-TCS
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
```

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)

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TST:ALM

Software Release: 5E15 and later
Command Group: ALARM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the audible and visual alarm reporting mechanism be tested. This request does not test that a specific fault will actually cause an alarm. This will only verify that the audible and visual alarm devices are in working order.

WARNING: Before starting this test, it is recommended that the user make sure all existing active alarms have been retired. Also note that when retiring the alarm generated by this input message, any other alarms that may have been activated during this testing will also be retired. Check the ROP and daylog for any real alarms that may have occurred during the test.

2. FORMAT

```
TST:ALM,LVL={CR|MJ|MN};
```

3. EXPLANATION OF MESSAGE

`CR` = Critical alarm level.

`MJ` = Major alarm level.

`MN` = Minor alarm level.

4. SYSTEM RESPONSE

`PF` = Followed by the TST:ALM output message.

5. REFERENCES

Input Message(s):

```
CLR:ALARMS
CLR:LAMPS
```

Output Message(s):

```
TST:ALM
```

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TST:ASP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an R0 advanced services platform (ASP) test query verifying integrity be sent to the external service control point (SCP) database. This will be sent using the service switching point (SSP) of the network and the contents of the routing information returned from the SCP.

2. FORMAT

```
TST:ASP[,TESTDN=a],ANI=b,SKEY=c,LATA=d[,CID=e][,CARSEL=f]
[,NON=g][,CICEI=h][,OPC=i][,PLATFORM=j];
```

3. EXPLANATION OF MESSAGE

a = The dialed ASP number. If called party (DIALED_NUM) is the service key then this field must be 10 digits, otherwise it can be any number of digits.

b = Automatic number identification (ANI) of the calling party. If calling ANI is the service key then this field must be 10 digits, otherwise it can be any number of digits.

c = The service key field. Valid value(s):
- ANI = Automatic number identification.
- DIALED_NUM = Dialed number or testdn.

d = Three-digit absolute local access and transport area (LATA) number (100-999).

e = A 3-digit or 4-digit feature group D (FGD) carrier identification which is either the "XXX" or "XXXX" digits contained in either the "10XXX" or "101XXXX" digits in sequence dialed by the caller or carrier code assigned to the caller as presubscribed inter-exchange carrier (PIC) information.

f = Carrier selection. Indicates whether digits (carrier identification) information dialed, is equal to the caller's presubscribed carrier information, or indicates the lack of this information. Valid value(s):
- CALLER = No presubscribed carrier input by caller.
- PIC = Presubscribed carrier not input by caller.
- PICIND = Presubscribed carrier origination unknown.
- PICMTCH = Presubscribed carrier input by caller.
- UNKN = Unknown.

g = Nature of number. Specifies the format of the address digits for subscribed triggers using the ASP dialing plan. Valid value(s):
- IECOPR = Inter exchange carrier operator.
- INTER = International.
- INTOPR = International operator.

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LECOPR = Local exchange carrier operator.
NAP = Not applicable.
NAT = National.
NETWK = Network specific.

h = CIC expansion indicator (Y or N). Indicates whether the CIC expansion parameter should be sent in the test query. If not specified the value is taken from the Gltcapic office parameter.

i = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. Note: this option is mandatory in a multi-platform office.

j = Signaling Platform. Valid value(s):
0 = Common Network Interface (CNI) Platform
1 - 192 = Global Switching Module (GSM) Number

Note: this option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- CNI NOT AVAILABLE = The test message can not be sent because the common network interface (CNI) is not operational or is overloaded. Check CNI status and wait at least 10 seconds before requesting another test.
- FAILED TO SEND TCAP MESSAGE = Unable to format query and send message out to network
- GSM/PROTOCOL MISMATCH = The GSM and the protocol do not match, missing or incorrect data.
- INVALID INPUT IN FIELD = There is either an invalid character in the numeric variables 'a', 'b', 'c', or 'd' or an incorrect number of digits.
- MISSING INPUT FOR FIELD = There is a missing field for variables 'e', 'f' or 'g'.
- MUST ENTER OPC = The origination point code must be specified as part of the input message line because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
- MUST ENTER PLATFORM = The signaling platform must be specified as part of the input message line because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid, the number of digits entered is incorrect, or the point code was not provisioned in the office.
- OPC IS NOT AVAILABLE = Could not get the point code. There was missing or incorrect data.
- OPC NOT ON PLATFORM = Could not find the point code on the platform entered.

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– PLATFORM IS INVALID = The entered signaling platform is either invalid or the platform entered is not provisioned in the office.

NO = The feature is not allowed. Valid value(s):
–CARRIER ID FIELD NOT ALLOWED = Carrier ID enhancement not authorized in this office. Do not include this field.
–CARRIER SELECTION FIELD NOT ALLOWED = Carrier selection enhancement not authorized in this office. Do not include this field.
–FEATURE NOT AVAILABLE = ASP must be purchased before attempting to send a test query.
–NATURE OF NUMBER FIELD NOT ALLOWED = Nature of number enhancement not authorized in the office. Do not include this field.

PF = Printout follows. The request has been received. Followed by a TST:ASP output message.

RL = Retry later. Valid value(s):
– OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
– TEST IN PROGRESS = A test query is currently in progress.

5. REFERENCES

Input Message(s):

```
TST:NS800
```

Output Message(s):

```
TST:ASP
TST:NS800
```

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

MCC Display Page(s):

118 (CNI STATUS)

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TST:ASPTQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests sending an advanced services platform (ASP) 0.1 test message to the service control point (SCP). If a response to format one is received from the SCP, the output is divided into two parts for display purposes [routing and automatic message accounting (AMA) billing]. The portion (routing or billing) of the response to display may be specified.

Format two is only for number portability. The only message type valid for this format is NPINFOANAL (information analyzed for number portability). It is used to verify whether a called party (CLDPTY) directory number (DN) is ported and the response to format two will display its location routing number if ported or, if not ported, will say it's not ported and echo back the specified CLDPTY.

WARNING: Using format two of this input message will effectively do a clear of any information analyzed (INFOANAL) parameter settings previously set using the SET:ASPTQ input message except for TRANTYPE, OPC, and TIMER. Using format two of this message will set number portability default values for the bearer capability and trigger type parameters and will set the called party ID, user ID directory number, and global title address parameters based on the called party value (CLDPTY=c) on the command line. If TRANTYPE is included on the command line, the command line value for TRANTYPE will over write any previous setting of TRANTYPE using the SET:ASPTQ input message. Use OP:ASPTQ,MSGTYPE=INFOANAL before using this command to see what currently set values may be lost by executing this command. Use OP:ASPTQ,MSGTYPE=INFOANAL after using this command to see what parameters were used in the query.

2. FORMAT

```
[1]    TST:ASPTQ,MSGTYPE=a[,MSGPART=b];

[2]    TST:ASPTQ,MSGTYPE=NPINFOANAL,CLDPTY=c[,TRANTYPE=d][,OPC=e][,PLATFORM=f];
```

3. EXPLANATION OF MESSAGE

`a` = The type of message to send to the SCP. Valid value(s):

- `CLOSE` = Close. The `CLOSE` message type is used to close the transaction with the SCP, and is typically used after sending the final notification message or in place of a request message to indicate caller abandon or an abnormal situation.
- `INFOANAL` = Information analyzed.
- `INFOCOLL` = Information collected.
- `NTWKBSY` = Network Busy. It is a request for the SCP to respond with further routing information. It can be sent as an event detection point request (EDP-R) message as a result of event detection when the SCP requests an NEL that

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specifies a busy event (the transaction remains open with the SCP).

OANSWER = Originating answer. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

Note: Multiple notification messages may be requested by the user (for example, OTERMSZD followed by OANSWER).

OCLDPTYBSY = Originating called party busy. It is a request for the SCP to respond with further routing informations. It can be sent either as a trigger detection point request (TDP-R) message resulting due to trigger events detection (which opens a transaction with SCP) or event detection point request (EDP-R) message as a result of event detection when the SCP requests an NEL that specifies a busy event (the transaction remains open with the SCP).

ODISCONNECT = Originating disconnect. This is a request for the SCP to respond with further routing information. It would be sent as an EDP-R message as a result of event detection when the SCP requests an NEL that specifies an originating disconnect. The transaction with the SCP remains open.

ODTMFENTRD = Originating DTMF (Dial Tone Multi-Frequency) entered. This is a request for the SCP to respond with further routing information. It would be sent as an EDP-R message as a result of event detection when the SCP requests an NEL that specifies an originating DTMF entered event. The transaction with the SCP remains open.

ONOANSWER = Originating no answer. It is a request for the SCP to respond with further routing informations. It can be sent either as a TDP-R message resulting due to trigger events detection (which opens a transaction with SCP) or EDP-R message as a result of event detection when the SCP requests an NEL that specifies a no answer (the transaction remains open with the SCP).

ORIGAT = Origination attempt.

OTERMSZD = Originating termination seized. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

RESCLR = Resource clear.

TANSWER = Terminating answer. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

TBUSY = Terminating busy. It is a request for the SCP to respond with further routing information. It can be sent either as a TDP-R message resulting due to trigger events detection (which opens a transaction with SCP) or EDP-R message as a result of event detection when the SCP requests a NEL that specifies a busy event (the transaction remains open with the SCP).

TERMAT = Termination attempt.

TNOANSWER = Terminating no answer. It is a request for the SCP to respond with further routing information. It can be sent either as a TDP-R message resulting due to trigger events detection (which opens a transaction with SCP) or EDP-R message as a result of event detection when the SCP requests a NEL that specifies a terminating no answer (the transaction remains open with the SCP).

TRMRSRCAVL = Terminating resource available. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

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b = The portion of the response message to display. The default is both. The routing portion of the message is always displayed when a SEND TO RESOURCE message is received. This allows information concerning possible subsequent actions to be displayed (that is, number of digits to collect). Valid value(s):

AMA = AMA billing part of the response message.

RTE = Routing part of the response message.

BOTH = Both the AMA billing and routing part of the response message.

c = Called party ID digits (10 digit DN required).

d = Translation type (range of 0-255).

e = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

f = Signaling Platform. Valid value(s):
0 = Common Network Interface (CNI) Platform
1 - 192 = Global Switching Module (GSM) Number

Note: this option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- CLDPTY IS MANDATORY - INCLUDE CLDPTY = The called party ID parameter is mandatory for the requested message. Include the parameter on the command line of the TST:ASPTQ input message.
- CLEAR CAUSE IS MANDATORY, SET CLEAR CAUSE = The clear cause parameter is mandatory for the requested message. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- CONVERSATION NOT IN PROGRESS = A transaction is not open. The resource clear message is only allowed in response to receiving a send to resource conversation message.
- GSM/PROTOCOL MISMATCH = The global switch module (GSM) and the protocol do not match, missing or incorrect data.
- INVALID PARAMETER USED = One or more of the options for format two (message type of NPINFOANAL) were used with format one (a message type other than NPINFOANAL).
- NEXT EVENT LIST NOT IN PROGRESS = A next event list is not in progress. The close, originating answer, Network Busy, and originating termination seized messages are only allowed in response to receiving either an analyze route or forward call conversation message which contains a next event list component.

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- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid (0-9 are allowed), the number of digits entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.
- OPC IS NOT AVAILABLE = Couldn't get the point code, missing or incorrect data.
- OPC IS MANDATORY - INCLUDE OR SET OPC = The origination point code parameter is mandatory for the requested message. The origination point code parameter has not been included or cannot be determined because the office has multiple GSMs or is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms. Set the parameter with the SET:ASPTQ input message before requesting the test again or include the parameter on the TST:ASPTQ input message for number portability.
- OPC NOT ON PLATFORM = Could not find the point code on the platform entered.
- PLATFORM IS INVALID = The entered signaling platform is either invalid or the platform entered is not provisioned in the office.
- PLATFORM IS MANDATORY - INCLUDE OR SET PLATFORM = The signaling platform is mandatory for the requested message. The signaling platform has not been included or cannot be determined because the office has multiple global switch modules (GSMs) or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms. Set the parameter with the SET:ASPTQ input message before requesting the test again or include the parameter on the TST:ASPTQ input message for number portability.
- USERID AND BEARCAP ARE MANDATORY - SET BEARCAP = The user ID and bearer capability parameters are mandatory for the requested message. The bearer capability parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID AND BEARCAP ARE MANDATORY - SET USERID = The user ID and bearer capability parameters are mandatory for the requested message. The user ID parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID, BEARCAP, AND GLOBTITLE ARE MANDATORY - SET BEARCAP = The user ID, bearer capability, and the global title address parameters are mandatory for the requested message. The bearer capability parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID, BEARCAP, AND GLOBTITLE ARE MANDATORY - SET GLOBTITLE = The user ID, bearer capability, and the global title address parameters are mandatory for the requested message. The global title address parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID, BEARCAP, AND GLOBTITLE ARE MANDATORY - SET USERID = The user ID, bearer capability, and the global title address parameters are mandatory for the requested message. The user ID parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID, BEARCAP, GLOBTITLE, AND OPC ARE MANDATORY - SET OPC = The origination point code parameter is mandatory for the requested message. The origination point code parameter has not been set or cannot be determined because the office has multiple GSMs or is equipped with both

common network interface (CNI) and packet switch unit (PSU) platforms. Set the parameter with the SET:ASPTQ input message before requesting the test again.

NO = The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The feature associated with the requested functionality must be purchased before attempting to send the particular test query. All ASP 0.1 test queries require that the ASP 0.1 feature must be purchased. In addition, the number portability test query (format two) requires the purchase of the Number Portability - Test Query for LRN feature.

OK = Good. The request was accepted.

PF = Printout follows. Followed by an TST:ASPTQ-AMA, TST:ASPTQ-FAIL, and/or TST:ASPTQ output message.

RL = Retry later. May also include:
- FAILED TO SEND TCAP MESSAGE = Unable to send a message. Retry the test later.
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
- SM IS NOT AVAILABLE = A switching module is not available (not operational or overloaded). Request the test again after the SMs become available.
- TEST IN PROGRESS = Another test query is currently in progress. Wait for that test query transaction to complete before requesting another test.

5. REFERENCES

Input Message(s):

```
SET:ASPTQ
CLR:ASPTQ
OP:ASPTQ
```

Output Message(s):

```
TST:ASPTQ
TST:ASPTQ-AMA
TST:ASPTQ-FAIL
TST:ASPTQ-NP
```

Other Manual(s):
235-190-126 *Advanced Services Platform Release 0.1B*

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TST:AT1

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an *ANSI*® transaction capabilities application part (TCAP) Type I test query be sent to a billing validation database to verify its operation.

2. FORMAT

```
TST:AT1,CCRD=a-b-c,{CLG|ICLG}=d,TTYP=e[,CICEXP][,{CLD|ICLD}=f];
```

3. EXPLANATION OF MESSAGE

`CICEXP` = Carrier identification code (CIC) expansion indicator - presence of this keyword indicates that the CIC sent by the database in the response message should be in the 4-digit format. Absence of the keyword indicates that the CIC should contain 3 digits. Note that currently the CIC is not used by Operator Services Position System (OSPS); therefore, there is no CIC in the test output message TST:AT1.

`a` = Issuer identification number of the telecommunications calling card (89C) or commercial credit card (CCC) number to be queried. This field will be 2 to 7 digits in length (enter the full card number).

`b` = Individual account number of the 89C or CCC card to be queried. This includes a check number, if required. This field will be a maximum of 15 digits; however, this field together with the issuer identification number will be 7 to 19 digits in length.

`c` = The 4-digit personal identification number (PIN) of the credit card to be queried.

`d` = The calling number, also known as the automatic number identification (ANI), or the back number.

Prefix:	Explanation:
`CLG=`	This is a 10-digit directory number for a North American numbering plan (NANP) calling number.
`ICLG=`	This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international calling number.

`e` = Translation type. The translation type is used in the TCAP query to indicate to the signaling transfer point (STP) which translation tables should be used to obtain routing information for the query. The translation type is a number from 0 to 255.

`f` = The called number.

Prefix:	Explanation:
`CLD=`	This is a 10-digit directory number for a NANP called number. Note that 411 and other N11 numbers must be entered as N110000000.
`ICLD=`	This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international called number.

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4. SYSTEM RESPONSE

NG = No good. Includes one of the following:
- CNI NOT AVAILABLE = The query request cannot be sent to the billing validation data base because the common network interface (CNI) is not available.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INCOMPATIBLE ICLG AND CLD NUMBERS = The international calling number is incompatible with a NANP called number of 4110000000. Specify the NANP called number as NPA-555-1212.
- INTERNAL ERROR = There is an internal error with the query format.
- INVALID CARD NUMBER = The input card number must be at least 7 digits, and at most 19 digits in length. The card number is composed of the issuer identification number and the individual account number (including the check number).
- INVALID CLD NUMBER = The called number is invalid. The NANP called number must be a 10-digit directory number.
- INVALID CLG NUMBER = The calling number is invalid. The NANP calling number must be a 10-digit directory number.
- INVALID ISSUER ID NUMBER = The issuer identification number must be at least 2 digits, and at most 7 digits in length.
- INVALID PIN = The PIN must be 4 digits in length.
- INVALID TRANSLATION TYPE = The translation type must be a number from 0 to 255.

PF = Printout follows. The request has been received. Output message TST:AT1 follows.

RL = Retry later. Includes the following:
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
```

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```
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LIDB-BNS
TST:LIDB-CCRD
TST:NCD
TST:RATE
```

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TST:BNS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a billed number screening (BNS) query be sent to the billing validation application (BVA), the line information database (LIDB), or the LIDB alternate destination (LALT) to verify its operation.

2. FORMAT

```
[1]    TST:BNS=a[-BVA];

[2]    TST:BNS=a-LIDB[,{CLG|ICLG}=b][,{CLD|ICLD}=c,CICEXP];

[3]    TST:BNS=a-LALT[,{CLG|ICLG}=b][,{CLD|ICLD}=c][,OLS=d][,OST=e][,CT=f]
       [,CICEXP];
```

3. EXPLANATION OF MESSAGE

`CICEXP` = Carrier identification code (CIC) expansion indicator - presence of this keyword indicates that the CIC sent by LIDB in the response message should be in the 4-digit format. Absence of the keyword indicates that the CIC should contain 3 digits. Note that currently the CIC could be sent by LIDB but it is not used by Operator Services Position System (OSPS) therefore there is no CIC in the test output message TST:LIDB-BNS.

`a` = 10-digit billing number to be queried in the form `NPANXXXXXX`.

`b` = Calling number, also known as the automatic number identification (ANI), or the back number.

Prefix:	Explanation:
`CLG=`	This is a 10-digit directory number for a North American numbering plan (NANP) calling number.
`ICLG=`	This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international calling number.

`c` = Called number.

Prefix:	Explanation:
`CLD=`	This is a 3 to 10-digit directory number for a NANP called number. Note that 411 and other N11 numbers can be entered as N110000000.
`ICLD=`	This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international called number.

`d` = Originating line screening (OLS) code. Valid range is 1 - 999. If this entry is omitted, a default value of 0 (no OLS) is used.

`e` = Originating station type (OST). Valid value(s):

- `ACQS` = Other ACQS station.
- `ACQSHOTL` = Automatic charge quotation service (ACQS) hotel station.
- `CNPRE` = Pre-paid coin station.
- `CNPST` = Post-paid coin station.

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NAHOTL = Non-ACQS hotel.
NCNPUB = Non-coin public station.
OTHER = Other station.
UNKN = Unknown station.

f = Call type (CT). This is the type of call, collect, bill to third, or none. Valid value(s):
COLLECT = Collect.
NONE = No call type (default).
PAID = Sent-paid.
THIRD = Bill to third.

4. SYSTEM RESPONSE

NG = No good. Includes one of the following:
- CICEXP ALLOWED ONLY FOR LIDB AND LALT = The carrier identification code expansion indicator may only be used if LIDB translation capabilities application part (TCAP) interface is the protocol used to access the database.
- CLD/ICLD NOT ALLOWED FOR BVA = The called number may not be specified if the database is specified as BVA.
- CLG/ICLG NOT ALLOWED FOR BVA = The calling number may not be specified if the database is specified as BVA.
- CNI NOT AVAILABLE = The query test cannot be sent to the BVA, LIDB, or LALT database because the common network interface (CNI) is not available.
- CT ALLOWED ONLY FOR LALT = The call type may only be specified if the database is specified as LALT.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INCOMPATIBLE ICLG AND CLD NUMBERS = The international calling number is incompatible with a NANP called number of 4110000000 or 411. Specify the NANP called number as NPA-555-1212.
- INTERNAL ERROR = There is an internal error with the LIDB query format.
- INVALID CLD NUMBER = The called number is invalid. The NANP called number must be a 10-digit directory number.
- INVALID CLG NUMBER = The calling number is invalid. The NANP calling number must be a 10-digit directory number.
- INVALID INPUT = The billing number must be ten digits.
- OLS ALLOWED ONLY FOR LALT = The OLS may only be specified if the database is specified as LALT.
- OLS RANGE IS 1 - 999 = The valid range for the OLS is 1 to 999, inclusive.
- OST ALLOWED ONLY FOR LALT = The OST may only be specified if the database is specified as LALT.

PF = Printout follows. The request has been received. If BVA was specified, output message TST:BNS follows. If LIDB or LALT was specified, output message TST:LIDB-BNS follows.

RL = Retry later. Includes one of the following:
- CNI/DLN PROBLEM = The test message cannot be sent - CNI is in overload or no active

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direct link node (DLN) is available.

- `TEST IN PROGRESS` = Another common channel signaling (CCS) test is in progress.
- `TOO MANY QUERIES RUNNING` = No BNS query IDs are available.

5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:AT1
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LIDB-BNS
TST:LIDB-CCRD
TST:NCD
TST:RATE
```

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TST:BTSR

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Invokes the bootstrapper board (BTSR) resident diagnostic.

2. FORMAT

```
TST:BTSR=a;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. The request was accepted. Followed by a TST:BTSR output message.

5. REFERENCES

Output Message(s):

`TST:BTSR`

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TST:CAS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a customer account services (CAS) query be sent to the CAS/network control point (NCP) data base to verify its operation.

2. FORMAT

```
TST:CAS=a[-b];
```

3. EXPLANATION OF MESSAGE

`a` = The 14-digit CAS account number to be queried (consists of a 10-digit individual account number plus a 4-digit personal identification number (PIN)).

`b` = The called number. For a domestic call this is a 10-digit directory number. For an international call this is a 1- to 3-digit international country code. For queries with no called number, this is 0. If this entry is omitted, a default value of 0 (no called number) will be used. Note that 411 and other N11 numbers must be entered as N110000000 in order to distinguish the N11 number from a 3-digit international country code.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `CALLED NUMBER` = The called number must be a 10-digit domestic number, a 1- to 3-digit international country code, or 0.
- `CARD NUMBER` = The input CAS card number must be 14 digits.
- `CNI NOT AVAILABLE` = The query test cannot be sent to the CAS/NCP data base because the common network interface (CNI) is not available.
- `FEATURE NOT AVAILABLE` = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- `INVALID INPUT` = The query could not be formatted with the data input.

`PF` = Printout follows. The request has been received. Output message TST CAS will follow.

`RL` = Retry later. May also include:
- `CNI/DLN PROBLEM` = The test message cannot be sent- CNI is in overload or no active direct link node (DLN) is available.
- `INTERNAL ERROR` = An invalid CAS query identifier (QID) was obtained.
- `TEST IN PROGRESS` = Another common channel signaling (CCS) test is in progress.
- `TOO MANY QUERIES RUNNING` = No CAS query IDs are available.

5. REFERENCES

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Input Message(s):

```
EXC:DSTT
TST:BNS
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE
```

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TST:CAS7

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a customer account services (CAS) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the CAS/network control point (NCP) or gateway/NCP data base to verify its operation.

2. FORMAT

```
TST:CAS7=a-b-c,TTYP=d[,{CLD|ICLD}=e][,SRV=f][,{CLG|ICLG}=g][,SDC=h][,CTYP=i];
```

3. EXPLANATION OF MESSAGE

`a` = Issuer identification number of the telecommunications calling card (89C) or commercial credit card (CCC) number to be queried. This field will be 2-7 digits in length (enter the full card number).

`b` = Individual account number of the 89C or CCC card to be queried. This includes a check number, if required. This field will be a maximum of 15 digits; however, this field together with the issuer identification number will be 7-19 digits in length.

`c` = Personal identification number (PIN). The PIN can be a maximum of 13 digits. If no PIN exists for the card, enter 0.

`d` = Translation type. The translation type is used in the TCAP query to indicate to the signaling transfer point (STP) which translation tables should be used to obtain routing information for the query. The translation type is a number from 0 to 255.

`e` = Called number. For international numbers, use the `ICLD=` label with a 1- to 15-digit international number. For North American numbering plan (NANP) numbers use the `CLD=` label with a 10-digit phone number. For queries with no called number, this is 0. If this entry is omitted, a default value of 0 (no called number) will be used. Note that 411 and other N11 numbers must be entered as N110000000. Note also that customer-initiated card calls to 411 contain LOCAL NPA-555-1212 as the called number in the card query to the NCP. Test queries need LOCAL NPA-555-1212 explicitly specified. A called number may not be entered if a speed dial code (SDC) is also entered.

`f` = CAS service specifier. The CAS service specifier is used in the CCS7 TCAP query to indicate the type of query associated with the call. Valid value(s):

`IVI`	= For inward queries.
`NORMAL`	= For other queries (standard card validation).
`RQV`	= For rate quote queries.
`SDAP`	= For speed dial auto provisioning (SDAP) queries.
Note	If this field is omitted, the default value NORMAL will be used.

`g` = Calling number. This is either a 10-digit NANP number, a 1-to 3-digit international country

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code, or a 7-digit DIOR number. If this entry is omitted, no calling number will be used. For international numbers, use the ICLG= label with a 4- to 15-digit international number. For NANP numbers use the CLG= label with a 10-digit phone number.

h = Speed dial code. This is a one to three digit number that may not begin with 0. A speed dial code may not be entered if a called (CLD) number is also entered.

i = Card type. This is required if the sum of the lengths of the issuer identification number, individual account number, and PIN is 14. The card type is prohibited if the entered card number length is not 14. Valid value(s):

CIID = Carrier issuer identifier card.
INIT = AT&T 14 digit *True Choice*™ calling card, initial call.
SEQ = AT&T 14 digit *True Choice*™ calling card, sequence call.

4. SYSTEM RESPONSE

NG = No good. May also include:

- CNI NOT AVAILABLE = The test query cannot be sent to the CAS/NCP database because the common network interface (CNI) or CCS7 links are not available.
- CTYP ONLY ACCEPTED WITH 14 DIGIT CARD NUMBER = A card type value can only be entered when the sum of the lengths of the issuer identification number, individual account number, and PIN is 14 digits.
- CTYP REQUIRED WITH 14 DIGIT CARD NUMBER = When the sum of the lengths of the issuer identification number, individual account number, and PIN is 14 digits, a card type value must be entered.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INVALID CLD NUMBER = The called number must be a 10-digit NANP number.
- INVALID ICLD NUMBER = The international called number must be a 4- to 15-digit international number.
- INVALID CALLING NUMBER = The calling number must be a 10-digit NANP number, a 1- to 3-digit international country code, or 0.
- INVALID CARD NUMBER = The input card number must be at least 7 digits, and at most 19 digits in length. The card number is composed of the issuer identification number and the individual account number (including the check number).

  If a 14-digit card number is entered and the card type is either INIT or SEQ, then the first and fourth digits must be 2 or higher.
- INVALID ISSUER ID NUMBER = The issuer identification number must be at least 2 digits, and at most 7 digits in length.
- INVALID PIN OR EXPIRATION DATE = The PIN or EXPIRATION DATE must be at most 13 digits in length.
- INVALID SERVICE SPECIFIER = Invalid specifier. May also include:
  - 6 = For rate quote query.
  - IVI = For inward query.
  - NORMAL = For standard card validation.
  - SDAP = For SDAP query.
- INVALID SPEED CODE = The speed dial code must be from one to three digits and may

not begin with 0.
- `INVALID TRANSLATION TYPE` = The translation type must be a number from 0 to 255.
- `SDC NOT ALLOWED WITH CLD` = A speed dial code may not be entered if a called number is also entered.

`PF` = Printout follows. The request has been received. Output message TST:CAS7 will follow.

`RL` = Retry later. May also include:
- `INTERNAL ERROR` = There was a problem reading the RLDS_APP relation (Recent Change/Verify View 8.17), to obtain the subsystem number.
- `TEST IN PROGRESS` = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
TST:SDAP
```

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)

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TST:CCRD

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a calling card (CCRD) query be sent using the billing validation application (BVA) interface, the line information database (LIDB) transaction capability application part (TCAP) interface, or to the LIDB alternate destination (LALT) using the LIDB TCAP interface to verify its operation.

2. FORMAT

```
[1]    TST:CCRD=a[-BVA];

[2]    TST:CCRD=a-LIDB,{CLG|ICLG}=b[,{CLD|ICLD}=c][,CICEXP];

[3]    TST:CCRD=a-LALT,{CLG|ICLG}=b[,{CLD|ICLD}=c][,OLS=d][,OST=e][,CICEXP];
```

3. EXPLANATION OF MESSAGE

`CICEXP` = Carrier identification code (CIC) expansion indicator - presence of this keyword indicates that the CIC sent by LIDB in the response message should be in the 4-digit format. Absence of the keyword indicates that the CIC should contain 3 digits.

Note: Currently the CIC could be sent by LIDB but it is not used by Operator Services Position System (OSPS) therefore there is no CIC in the test output message TST:LIDB-CCRD.

`a` = Fourteen-digit calling card number to be queried, in the form `NPANXXXXXXYYYY` or `RAO[0/1]XXXXXXYYYY`.

`b` = The calling number, also known as the automatic number identification (ANI), or the back number.

Prefix:	Explanation:
`CLG=`	This is a 10-digit directory number for a North American numbering plan (NANP) calling number.
`ICLG=`	This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international calling number.

`c` = The called number.

Prefix:	Explanation:
`CLD=`	This is a 10-digit directory number for a NANP called number. Note that 411 and other N11 numbers must be entered as N110000000.
`ICLD=`	This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international called number.

`d` = Originating line screening (OLS) code. Valid range is 1 - 999. If this entry is omitted, a default value of 0 (no OLS) is used.

`e` = Originating station type (OST). Valid value(s):

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ACQS = Other ACQS station.
ACQSHOTL = Automatic charge quotation service (ACQS) hotel station.
CNPRE = Pre-paid coin station.
CNPST = Post-paid coin station.
NAHOTL = Non-ACQS hotel.
NCNPUB = Non-coin public station.
OTHER = Other station.
UNKN = Unknown station.

4. SYSTEM RESPONSE

NG = No good. Includes one of the following:
- CICEXP ALLOWED ONLY FOR LIDB AND LALT = The carrier identification code expansion indicator (CICEXP) may only be used if LIDB TCAP interface is the protocol used to access the database.
- CLD/ICLD ALLOWED ONLY FOR LIDB AND LALT = The called number may only be specified if LIDB TCAP interface is the protocol used to access the database.
- CLG/ICLG ALLOWED ONLY FOR LIDB AND LALT = The calling number may only be specified if LIDB TCAP interface is the protocol used to access the database.
- CNI NOT AVAILABLE = The query request cannot be sent to the BVA, LIDB, or LALT database because the common network interface (CNI) is not available.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INCOMPATIBLE ICLG AND CLD NUMBERS = The international calling number is incompatible with a NANP called number of 4110000000. Specify the NANP called number as NPA-555-1212.
- INTERNAL ERROR = There is an internal error with the LIDB query format.
- INVALID CLD NUMBER = The called number is invalid. The NANP called number must be a 10-digit directory number.
- INVALID CLG/ICLG NUMBER = The calling number is invalid. The calling number must be specified if LIDB TCAP interface is the protocol used to access the database, and a NANP calling number must be a 10-digit directory number.
- INVALID INPUT = The calling card number must be fourteen digits.
- OLS ALLOWED ONLY FOR LALT = The OLS may only be specified if the database is specified as LALT.
- OLS RANGE IS 1 - 999 = The valid range for OLS is 1 to 999, inclusive.
- OST ALLOWED ONLY FOR LALT = The OST may only be specified if the database is specified as LALT.

PF = Printout follows. The request has been received. If BVA was specified, output message TST:CCRD follows. If LIDB or LALT was specified, output message TST:LIDB-CCRD follows.

RL = Retry later. Includes one of the following:
- CNI/DLN PROBLEM = The test message cannot be sent. CNI is in overload or no active direct link node (DLN) is available.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.
- TOO MANY QUERIES RUNNING = No calling card query IDs are available.

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5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LIDB-BNS
TST:LIDB-CCRD
TST:NCD
TST:RATE
```

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TST:CCS-GSMCFG

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a report is issued indicating whether Generic Retrofit Selective Initialization may proceed with minimal impact on CCS capability.

2. FORMAT

```
TST:CCS,GSMCFG[,OPT=a];
```

3. EXPLANATION OF MESSAGE

`a` = Command line option string passed to the unix command: /prc/supr/gsmcnfg. If no option string is specified, a summary of possible command line options are printed on the ROP and displayed on the terminal.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `GSM MISMATCH` = The specified SM does not exist or is not a GSM.

`RL` = Retry later. May also include:
- `DATA BEING UPDATED` = The input message cannot be processed because the relations that contain the status of linksets, DPCs, clusters, networks, PHs, etc. are being updated either by a traffic diversion terminal process or by audits.
- `MSG NOT SENT TO CLIENT PROC` = The input message cannot be processed because the signaling traffic route and management (STRM) system process failed to create the terminal process.

`PF` = Printout Follows. Followed by the TST:CCS,GSMCFG output message.

5. REFERENCES

Input Message(s):

```
OP:CCS-ROUTE
OP:CCS-LSCLS
```

Output Message(s):

```
TST:CCS-GSMCFG
```

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Other Manual(s):

Common Channel Signaling Service Features
Office Generic Retrofit

MCC Display Page(s):

1532 *(CCS LINK SET SUMMARY)*

1533 *(CCS LINK SET MEMBER)*

RC/V View(s):

(SIGNALING LINK SET)
(SIGNALING LINK SET MEMBER)
(COMBINED SIGNALING LINK SET)
(NETWORK ROUTING)
(CLUSTER ROUTING)
(SIGNALING POINT CODE)

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TST:CCSLK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Schedules a link test to be run on a signaling link. The link tests are conducted to ensure that message traffic can travel across the signaling links.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
TST:CCSLK,SET=a[&&b],MEMBER=c[&&d][,SM=e];
```

3. EXPLANATION OF MESSAGE

`a` = Link set number or lower limit of a range of link set numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. The range of numbers need not start or end with equipped link set numbers.

`b` = Upper limit of a range of link set numbers.

`c` = Link member number or lower limit of a range of link member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped link member numbers.

`d` = Upper limit of a range of link member numbers.

`e` = Global switching module (GSM) number. Common channel signaling (CCS) GSM number where the link to be tested is located. If no SM number is specified and only one CCS GSM exists in the office, the specified link on that GSM will be tested. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `GSM MISMATCH` = The specified SM is not a GSM or the SM does not exist.
- `NO GLOBAL SM` = No GSM is provisioned in the office.
- `NEED GSM NUMBER` = SM was not specified in the input message, and office has more than one GSM provisioned.

`PF` = Printout follows. Followed by the TST:CCSLK output message.

`RL` = Retry later. May also include:
- `SM NOT AVAILABLE` = Command cannot be processed because the specified GSM is not

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accessible.

5. REFERENCES

Output Message(s):

`TST:CCSLK`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)

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TST:DLNHB

Software Release: 5E15 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests a manual direct link node (DLN) "heartbeat test" execution for a specific switching module (SM). The DLN heartbeat test checks each SM for its ability to communicate with the DLN. This input message allows the user to test a particular SM to insure that it can process messages from the DLN. If problems exist the REPT:DLN output message generated will help in the solution.

2. FORMAT

```
TST:DLNHB,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `DLNS ARE NOT EQUIPPED` = This test can only be run on common network interface (CNI) rings equipped with DLNs. This ring does not have DLNs.
- `SM NOT AVAILABLE` = The SM chosen is either not equipped or cannot process messages at this time.

`PF` = Printout follows. The REPT:DLN and REPT:TST-DLN request has been received and test is being executed.

`RL` = Retry later. May also include:
- `AM INIT IN PROGRESS` = The administrative module (AM) is currently in an initialization state. This test cannot be run at this time.
- `CNI NOT AVAILABLE` = The CNI ring is not available at this time.
- `DLN NOT AVAILABLE` = The DLNs are not in active/standby state.
- `DLN SWITCH IN PROGRESS` = The DLNs are switching states. Communications to the DLN is not possible at this time.
- `RING IS IN SILENCE STATE` = Communication both to and from the node is not available at this time.
- `TST DLNHB CURRENTLY INPROG` = A previous test is currently in progress. Only one test at a time is allowed.

5. REFERENCES

Output Message(s):

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```
REPT:DLN
REPT:TST-DLNHB
```

Other Manual(s):
235-190-120 *Common Channel Signaling Service Features*

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TST:DSL

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To test the specified integrated service digital network (ISDN) basic rate interface (BRI) using digital, analog or metallic techniques (digital subscriber line (DSL) and BRI are used interchangeably in this message).

WARNING: Mismatch tests and loop-back tests deny customer service on associated DSL channels for the duration of the request. In general, tests that include the D-channel (explicitly or implicitly) block all call processing on the DSL.

Specifically, the test type parameter is used to request digital loop-back (LPBK) testing, corrupt cyclic redundancy check (CRC) testing or hardware mismatch testing. Testing of DSLs is supported in all configurations of the access interface unit (AIU), integrated services line unit (ISLU), integrated services line unit, version 2 (ISLU2), integrated digital carrier unit (IDCU), and digital network unit - synchronous optical network (SONET) (DNU-S). In addition, testing DSLs of both custom and standard (layer 3) interface types is supported.

The types of DSL (layer 1) interfaces supported are the T-interface (T) and the U-interface (U). The U-interface DSLs (U-DSLs), are supported by alternate mark inversion (AMI) and 2 binary 1 quaternary (2B1Q) technologies. The 2B1Q version supports the standard defined by the *ANSI®*. For the remainder of this message, the term *ANSI®* refers to the 2B1Q version.

The IDCU and DNU-S connect a remote digital terminal (RDT) using the TR-303 interface. The RDT equivalent of the ISLU line card (LC) is called a channel unit (CU). Any type of LC, line circuit (LCKT) or RDT CU are collectively referred to as the line termination (LT) throughout this message.

Unless otherwise stated: all references to ISLU include all configurations of the ISLU and the ISLU2. This includes both the remote integrated services line unit (RISLU) and remote integrated services line unit version 2 (RISLU2). All references to AIU include the remote access interface unit (RAIU). Reference to line unit (LU) includes all supported ISDN compatible LUs.

Any TST:DSL request may be stopped using the STP:TST-DSL input message (with the exception of IDCU or DNU-S CRC test which must execute until completion, as per specification).

The following message formats indicate the parameters that apply to specific test types as used for ISLU, AIU, IDCU and DNU-S applications. In general, the DSL to be tested is identified using the office equipment number (OEN) or an associated subscriber directory number (DN).

Formats 1 through 4 are for DSL tests on any LU using the subscriber DN.

Format 5 is for ISLU DSL testing using the subscriber DN.

Formats 6 through 10 are for ISLU DSLs using the line card equipment number (LCEN).

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Formats 11 through 14 are for IDCU DSLs using the IDCU line equipment number (ILEN).

Formats 15 through 19 are for ISLU2 DSLs using the line circuit equipment number (LCKEN).

Formats 20 through 23 are for DNU-S DSLs using the integrated digital loop carrier (IDLC) networking line equipment number (INEN).

Formats 24 through 27 are for AIU DSLs using the AIU equipment number (AIUEN).

2. FORMAT

```
[1]    TST:DSL[:AUTO|CS],DN=a[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p]
       [,TERM=q][,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w]
       [,MODE=x][,V][,ROP][,UCL=y];

[2]    TST:DSL:PS,DN=a[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p][,TERM=q]
       [,INT=r][,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];

[3]    TST:DSL:OSPS,DN=a[,CAMP=o][,RTDS1=p][,ROP][,UCL=y];

[4]    TST:DSL:CRC[=l],DN=a[,DUR=s][,CAMP=o][,V][,ROP][,UCL=y];

[5]    TST:DSL:MSMTCH,DN=a[,CAMP=o][,ROP][,UCL=y];

[6]    TST:DSL[:AUTO|CS],LCEN=b-c-d-i[,CH=m][,TEI=n][,CAMP=o][,TERM=q]
       [,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w][,MODE=x]
       [,V][,ROP][,UCL=y];

[7]    TST:DSL:PS,LCEN=b-c-d-i[,CH=m][,TEI=n][,CAMP=o][,TERM=q][,INT=r]
       [,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];

[8]    TST:DSL:OSPS,LCEN=b-c-d-i[,CAMP=o][,ROP][,UCL=y];

[9]    TST:DSL:CRC,LCEN=b-c-d-i[,DUR=s][,CAMP=o][,V][,ROP][,UCL=y];

[10]   TST:DSL:MSMTCH,LCEN=b-c-d-i[,CAMP=o][,ROP][,UCL=y];

[11]   TST:DSL[:AUTO|CS],ILEN=b-e-g-k[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p]
       [,TERM=q][,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w]
       [,MODE=x][,V][,ROP][,UCL=y];

[12]   TST:DSL:PS,ILEN=b-e-g-k[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p]
       [,TERM=q][,INT=r][,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];

[13]   TST:DSL:OSPS,ILEN=b-e-g-k[,CAMP=o][,RTDS1=p][,ROP][,UCL=y];

[14]   TST:DSL:CRC[=l],ILEN=b-e-g-k[,DUR=s][,CAMP=o][,ROP][,UCL=y];

[15]   TST:DSL[:AUTO|CS],LCKEN=b-c-d-h-j[,CH=m][,TEI=n][,CAMP=o][,TERM=q]
       [,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w][,MODE=x]
       [,V][,ROP][,UCL=y];

[16]   TST:DSL:PS,LCKEN=b-c-d-h-j[,CH=m][,TEI=n][,CAMP=o][,TERM=q][,INT=r]
       [,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];
```

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```
[17]   TST:DSL:OSPS,LCKEN=b-c-d-h-j[,CAMP=o][,ROP][,UCL=y];

[18]   TST:DSL:CRC,LCKEN=b-c-d-h-j[,DUR=s][,CAMP=o][,V][,ROP][,UCL=y];

[19]   TST:DSL:MSMTCH,LCKEN=b-c-d-h-j[,CAMP=o][,ROP][,UCL=y];

[20]   TST:DSL[:AUTO|CS],INEN=b-f-g-k[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p]
       [,TERM=q][,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w]
       [,MODE=x][,V][,ROP][,UCL=y];

[21]   TST:DSL:PS,INEN=b-f-g-k[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p]
       [,TERM=q][,INT=r][,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];

[22]   TST:DSL:OSPS,INEN=b-f-g-k[,CAMP=o][,RTDS1=p][,ROP][,UCL=y];

[23]   TST:DSL:CRC[=l],INEN=b-f-g-k[,DUR=s][,CAMP=o][,ROP][,UCL=y];

[24]   TST:DSL[:AUTO|CS],AIUEN=b-c-h-j[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p]
       [,TERM=q][,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w]
       [,MODE=x][,V][,ROP][,UCL=y];

[25]   TST:DSL:PS,AIUEN=b-c-h-j[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p]
       [,TERM=q][,INT=r][,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];

[26]   TST:DSL:OSPS,AIUEN=b-c-h-j[,CAMP=o][,RTDS1=p][,ROP][,UCL=y];

[27]   TST:DSL:CRC,AIUEN=b-c-h-j[,DUR=s][,CAMP=o][,ROP][,UCL=y];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`AUTO` = Perform LPBK testing on the specified or defaulted DSL channels, automatically (AUTO) selecting the test type in accordance with the basic/logical configuration of each channel tested (AUTO is the default test type). Using AUTO test type selection, packet switch (PS) testing is selected for the D-channel and/or any permanent packet B-channel (PPB); otherwise, circuit switched (CS) testing is selected.

If all ISLU *ANSI*® DSL channels are under CS or PS test, the LPBK point is beyond the LT and layer 1 is found to be down beyond that point, a mismatch test is automatically invoked. In such cases, a "job status" of the form

`CRC` = Perform a corrupt performance monitoring (PM) CRC test on the specified *ANSI*® U-DSL, between the LT and the network termination 1 (NT1). The corrupt CRC test verifies that the PM counters at the LT and CUs can detect and maintain a record of block errors (BE). In addition, if the reporting of PM alerts has been turned on and the associated alerts have not fired for the current period, a PM alert (refer to the REPT:ALE-LEVEL1 output message) is triggered if the CRC test duration (DUR) is long enough to cause a LT PM count threshold to be reached (refer to RC/V View 22.15).

The CRC test can be used to output the PM counts at the LT and optionally the CUs (for verbose requests) by specifying a test duration of zero (refer to the DUR parameter). In this case, no CRC corruption is done.

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The CRC test introduces "corrupted" CRC once every superframe of the layer 1 protocol. One BE is generated for each superframe that transmitted downstream (that is, LT toward the NT1) and then back upstream (that is, NT1 toward the LT). For ISLU and AIU DSLs, both the upstream and downstream directions on the U-DSL are tested at the same time. For IDCU DSLs, the direction of testing must be specified (refer to variable 'l'). Test results in the form of PM counts are output for the LT and optionally for each equipped CU if the verbose (V) parameter is specified.

The IDCU and DNU-S CRC test differs from other LUs as required by the RDT standard. For IDCU and DNU-S DSLs, *ANSI*® CUs cannot be detected by the switch; therefore, PM counts are generated for only the LT. The CRC test for IDCU and DNU-S must run to completion; once started, it cannot be stopped (refer to the STP:TST-DSL input message). The IDCU and DNU-S CRC maximum test duration is 255 seconds (4 minutes, 15 seconds).

The LT current hour PM counts are marked corrupt as a result of CRC testing to indicate that the entire U-DSL (NT1 to LT) cannot be monitored for BEs during or after the CRC test (that is, while the corrupt condition persists). The PM counters are left as they were at the end of the test. This allows a re-read of the PM counts if necessary. The EXC:ALE input message can be used to clear the PM counts if desired; however, the corrupt condition persists until the next PM interval. There is no way to mark the CU PM counts as corrupt.

The CRC test is non-invasive with regards to DSL (2B+D) channel operations and does not cause a loss of customer service.

`CS` = Perform a CS digital LPBK test on the specified or defaulted DSL channel(s). This test is useful for evaluating the quality of DSL channels supporting circuit-switched data (CSD) or circuit-switched voice (CSV) types of services. This test requires the use of a integrated services test function (ISTF) or global digital services function (GDSF) as the digital test source. One test equipment transmit/receive channel (maximum of 3 per ISTF and 16 per GDSF) must be allocated for each CS DSL channel to be tested. The data rate of the digital bit stream may be specified using the RATE parameter.

The CS test activates the specified (or default) LPBK termination, establishes a digital path between the test equipment channel and the associated DSL channel, and transmits a pseudo random bit stream to be returned at the location of LPBK termination. The incoming bit stream (returning from the LPBK) is checked by the test equipment to derive the bit error rate (BER) and the errored blocks (ERBLK) for output. The success or failure of testing is based on the acceptable bit error rate (ABER), which may be specified on input.

The test equipment is accessed using trunk routing techniques. All associated growth procedures, which include the assignment of logical test ports (LTP), must be completed before the test equipment can be accessed. The number of LTPs that serve a switching module (SM) must always be equal to the number of ISTF and GDSF circuits in that SM. If test equipment circuits are out-of-service (OOS) a like number of LTPs must be OOS. If an imbalance exists, the test equipment is chronically unavailable.

`MSMTCH` = Perform a mismatch test on the specified ISLU U-DSL to test compatibility between the LT and the first metallic termination (CU or NT1) connected to the LT. The mismatch test is not supported for AIU, IDCU and DNU-S DSLs. All customer service is blocked during mismatch testing.

After verifying database integrity, the mismatch test makes current measurements to

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determine the resistance at the LT, as connected to the first metallic termination (NT1 or CU), to detect the following abnormal conditions:

- Loop resistance that is too high or low between tip and ring.
- Loop resistance that is too low between tip and ground or ring and ground.
- For AMI U-DSLs, tip and ring reversal at the NT1 (that is, when no CUs are present).

For ISLU *ANSI*® U-DSLs, the mismatch test marks the LT current hour PM counts as corrupt to indicate that the entire U-DSL (from NT1 to LT) cannot be monitored for BEs during or after the mismatch test (that is, while the corrupt condition persists). There is no way to mark the CU PM counts as corrupt.

`OSPS` = Perform a voice continuity test on an Operator Services Position Systems (OSPS) DSL supporting directory assistance (DA) or toll assistance (TA) operators. The transmission test function (TTF) or GDSF is used as the analog test source. This test can only be performed on the B1-channel using an external analog termination provided by customer premise equipment (CPE) such as the basic services terminal (BST) or video display terminal (VDT). The termination is provided when the CPE headset is unplugged. The OSPS test duration is fixed at 10 seconds. The OSPS DSL must be OOS before it can be tested (refer to the RMV:LINE message).

`PS` = Perform a PS digital LPBK test on the specified or defaulted DSL channel(s). This test is used to evaluate the quality of DSL channels supporting permanent packet D-channel (PPD), PPB, or on-demand packet (ODP) types of services. This test uses the logical protocol handler (PH) channel(s) assigned to serve the associated DSL channel(s) to source layer 2 test packets. The transmission rate of test packets is approximately 1 packet per second.

The test activates the specified (or default) LPBK termination, establishes a virtual digital path between the PH channel and the associated DSL channel, and transmits test packets (containing a pseudo random number) to be returned at the location of LPBK termination. The incoming packets are checked by the PH to derive the percentage of successfully transmitted packets (PKTRATE) for output.

The testing status is ATP if 98% to 100% of the transmitted packets are received error-free. A failed status indicates less than 98% of the transmitted packets were received error-free.

Generally, a logical PH channel is always dedicated to serve a D-channel or PPB-channel. One exception is the pseudo BRI D-channel, which has no active PH channel assigned and therefore cannot be tested. For ODP B-channels, up to two logical PH channels may be assigned to serve a single user. In this case, an available PH channel is chosen by software for testing (not user selectable). On DSL channels that support ODP service, both CS and PS tests can be performed (refer to the MODE=USER parameter).

If PS DSL channels are assigned to different logical PHs, the testing of all channels may continue simultaneously; however, if those PH channels are mixed on the same logical PH, the PS tests are done sequentially. This results in an elapsed test time approximately three times the test duration when testing all DSL channels. If the test duration is over 60 seconds, an output message is generated indicating a retest is in progress for each DSL channel encountering a busy PH. Sequential testing is required, as only one PS digital test can be performed per PH (this limit has always existed). The effects may also be observed when testing two different DSLs, both having a PS channel assigned to the same logical PH (which may support 128 channels). The test results indicate a PH resource shortage for the later of

the two tests.

A physical PH is logically assigned to serve specific DSL channels. This logical assignment can change automatically during testing. This means that the PH test source can be different when the test completes. A PS test procedure is not preserved in the event of a PH soft or hard switch. If detected, the PH switch terminates testing on the associated channel(s). If a PH switch goes undetected, a time-out for test results occurs. The assigned physical PH is checked on a periodic basis; however, during that period the test duration may elapse or the defective PH can be switched.

`ROP` = Direct all output to the receive-only printer (ROP).

The ROP parameter frees the invoking terminal (such as, TLWS, MCC) for subsequent work while test results are logged only on the ROP device. This is useful when performing long duration tests in modes that produce multiple output messages.

`V` = Generate output in a verbose manner.

This parameter provides for the output of testing information which would otherwise not be made available. For CRC test requests, test results for all populated CUs are output. For SECT mode LPBK requests, all intermediate failures are output.

`a` = Directory number that specifies a user of the DSL.

`b` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ISDN line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Remote digital terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Line board/pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = RDT channel unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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l = IDCU or DNU-S CRC test direction. The IDCU and DNU-S CRC test is run in one direction at a time, which is specified as a value to the CRC parameter. The test direction values are not used by other LUs, as the test is always runs in both directions. If the duration specified is zero the test direction values are ignored. Valid value(s):

UP = Perform a CRC test using the upstream registers of the LT on the U-DSL, reporting only upstream PM results on output.

DWN = Perform a CRC test using the downstream registers of the LT on the U-DSL, reporting only downstream PM results on output.

DEFAULT: If a direction is not specified and the duration specified is greater than 0, the CRC parameter defaults to DWN.

m = DSL channel(s) tested.

This parameter specifies the DSL channel(s) to be tested. The entry of a particular value does not imply that call processing continues for untested DSL channels; if hardware limitations require the control of other DSL channels, they are also blocked for testing. If ALL DSL channels are to be tested and the request is inappropriate for one or more channels, testing may continue, requiring fewer DSL channels to be blocked for testing. Output messages are generated for all channels requested for testing. Valid value(s):

B = Test using any idle B-channel. If both B-channels are busy, camp-on both channels, using the channel that becomes free first. The UCL=PRMT parameter is not allowed when any B-channel is specified.

B1 = Test on the B1-channel.

B2 = Test on the B2-channel.

D = Test on the D-channel. The D-channel provides in-band signaling required to support CS B-channels; therefore, when the D-channel is tested, the test procedure also controls any CS B-channels. However, PPB-channels may be free (that is, hardware permitting), as signaling is done in-band.

BB = Test on both B-channels.

ALL = Test on all assigned DSL channels.

DEFAULT: Except for CS testing, the CH parameter defaults to ALL. For CS testing, the default is BB.

n = Terminal endpoint identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

The TEI can be used to identify specific CPE for the purpose of performing a CPE LPBK or identifying a specific subscriber for USER mode testing. The DN or OEN must be used in conjunction with a TEI to properly identify the associated SM and LT. Use the OP:CPE input message to obtain active TEI.

A TEI must be specified to do a CPE LPBK when the CPE is not bound to a specific user. In this case, the OEN or an unbound DN must be used to identify the LT. If a DN is used, the service order profile (SOP) associated with that user is implied to be bound to the CPE assigned the TEI. This allows the LPBK testing of an unbound users ODP service using any unbound CPE. If a bound DN is used, the TEI is ignored on input and the TEI associated with the user's CPE is always output.

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To perform USER mode testing, a unique SOP must always be identified. The SOP can be identified using a DN, or the OEN with the TEI assigned to a bound CPE.

o = Camp-on (CAMP) time (15-3600, default 300).

The test camps-on for the time specified (in seconds), waiting for the required resources to become available, at which time testing may proceed. If the resources do not become available in the specified time, the test is aborted. No camp-on occurs if UCL=PRMT is specified.

p = Remote terminal digital signal level 1 (DS1) (RTDS1=1-28).

The RTDS1 specifies the DS1 carrier transmission path between the IDCU and the RDT that is used during digital testing. If the specified RTDS1 is unavailable, the test is aborted. The RTDS1 is only selectable when performing CS or ODP tests on CS channels. The RTDS1 is permanently assigned for D-channels and PPB-channels. The protected (that is, spare) DS1 cannot be specified for testing. The specified RTDS1 can be lost if the digital path must be reestablished for retest or multi-section tests (refer to the MODE parameter).

q = Termination.

For digital LPBK testing, the termination is the point at which the test data is returned to the test equipment for evaluation. A LPBK termination may be provided using the built in capabilities of transmission equipment dedicated to serve the DSL or by breaking the LOOP|PATH manually, applying suitable test equipment and specifying TERM=EXT.

A LPBK termination may be placed at various locations within the digital path or loop to facilitate the sectionalization of transmission problems. The failure of a digital LPBK test implicates the transmission media as well as the transmission equipment providing the LPBK termination. Alternatively, the success of a LPBK test does not absolve the transmission equipment providing that LPBK from failure, as the fault may lie within that unit beyond the associated LPBK circuitry. In addition, particular transmission equipment may perform its primary function flawlessly; however, the LPBK function within that unit can be faulty or simply unimplemented.

The customer is denied service during testing. The extent of service blockage depends on the channels under test and the LPBK chosen. Any attempt to test the D-channel blocks all CSV/CSD/ODP calls, as the D-channel is used for all call setup procedures. The customer impact may be reduced by requesting interruptible tests (refer to the INT parameter). Valid value(s):

CPE = The LPBK termination is provided within the CPE connected to the DSL. Specifically, the selected ISDN telephone or data module CPE provides the LPBK termination(s) for digital testing. For U-DSLs, the use of this termination allows evaluation of the subscribers on premise wiring/equipment. If an NT1 LPBK test passes and a CPE LPBK fails, the fault must lie beyond the LPBK termination within the NT1. For T-DSLs the fault would lie beyond the LT LPBK termination.

The CPE may be specified using a bound DN, or the OEN with an assigned TEI. The CPE may also be specified using an unbound DN with a TEI. This implies binding between the SOP of the DN and the selected CPE. The CPE can provide a LPBK on one or both B-channels. The CPE cannot provide a

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LPBK on the D-channel.

Only CPEs that support the maintenance information message (MIM) protocol, as described in the Basic Rate Interface Specification manual, can activate this LPBK termination. CPE vendors other than Lucent Technologies are not required to support this LPBK termination. The standard interface CPE does not support MIM or provide LPBK capability. Attempts to LPBK incompatible CPEs can result in failures to establish or remove LPBK terminations.

It should be noted, that the CPE using feature package one (FP1) firmware does not support CPE LPBKs, while the CPE FP firmware and later fully supports the LPBK. Examples of compatible CPE include the AT&T 6508, 7505, 7506, 7507 and 8503 telephones and the 7500 data module.

`CUx` = The LPBK termination is provided within the specified DSL CU. The CU LPBK terminations are only supported on ISLU and AIU DSLs (CUs are not detected and associated LPBKs are not attempted, on DSLs supported by other LUs). The three types of CUs supported are the AMI, TBRITE AMI and the *ANSI*® CUs.

The AMI U-DSL supports up to four CUs (x=1-4). The presence of AMI CUs cannot be determined by the switch; therefore, a LPBK request is performed as if every AMI DSL had CUs. If CUs are not populated, LPBK testing always fails indicating a "FAULT IN LOOP|PATH", as the test data is not returned to the test equipment.

The *ANSI*® U-DSL supports up to six channel units (x=1-6) and can respond to queries from the switch; therefore, the number of populated CUs is determined prior to testing and only those present are tested.

ANSI® CUs support the LPBK of individual B-channels or all DSL channels simultaneously. For AMI CUs, individual B-channel LPBKs are not possible and the D-channel LPBK is not supported for *ANSI*® or AMI; therefore, to perform associated requests, ownership of all DSL channels is obtained and all DSL channels are placed in LPBK. This method denies service to all users during the CU test. Only the *ANSI*® CU supports concurrent B-channel LPBKs using the CH=BB value. However, because all DSL channels are unlooped with one request, only one test procedure may LPBK a given CU at a time. The TBRITE AMI CU differs from the AMI CU in that the NT1 is built into the CU. The TBRITE AMI unit provides both CU and NT1 LPBK capability.

`EXT` = A test may be performed without a LPBK termination for the purpose of applying a termination "manually" (by the user) external (EXT) to the switch. If a LPBK termination is not "manually" applied, the test fails because test data is not returned to the test equipment. An EXT LPBK can be provided by suitable test equipment connected along the loop or by setting compatible CPE in LPBK mode.

The DSL port to be tested should be manually taken OOS prior to testing (For example, refer to the RMV:LINE and RMV:DATALINK input messages), as the LPBK must be applied prior to invoking the test. This eliminates the possibility of producing protocol errors and associated records when looping back PS channels.

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`LT|LC` = The LPBK termination is provided within the ISLU LC, the AIU LCKT or the IDCU or DNUS RDT CU. The three LT types supported are T-DSLs, *ANSI*® U-DSLs, and AMI U-DSLs. The T-DSL LT attaches directly to the (T-interface) CPE. The U-DSL LT uses an (on premise) NT1 to provide a T-interface for the CPE and may possibly employ CUs to extend the U-interface.

The LT supports the LPBK of individual DSL channels or all DSL channels simultaneously and DSL channels may be selectively unlooped. This allows concurrent test procedures to set and remove LPBKs independently. Requests to LPBK the LT on the D-channel result in blocking calls on CS B-channels.

`NT1` = The LPBK termination is provided within the NT1. The NT1 termination is supported on *ANSI*® and AMI U-DSLs. The NT1 termination does not exist for T-DSLs. The NT1 functionality may be encorporated in other equipment (such as, the T-BRITE CU and the 6508 CPE), however, the actual implementation should be transparent.

Both the *ANSI*® and AMI NT1 support the LPBK of individual B-channels or all DSL channels simultaneously. Only the *ANSI*® NT1 allows concurrent B-channel LPBKs using the CH=BB value. Since the D-channel and AMI CH=BB LPBKs are not supported, ownership of all DSL channels is obtained and all DSL channels are placed in LPBK to support these requests. This method denies service to all users during the NT1 test. Also, because all DSL channels are unlooped with one request, only one test procedure may LPBK a given NT1 at a time.

`PH` = The LPBK termination is provided on the PH channel that supports the associated DSL channel. The type of PH hardware (such as, PH2 or PH3) is transparent to the LPBK request.

This LPBK provides the ability to diagnose the PH channel (that is, the test equipment) serving a particular DSL channel. An ODP user can be served by two PH channels. In this case, a free PH channel is automatically selected to provide the LPBK termination (the PH channel that provides the LPBK is not user selectable). A PH LPBK may be performed on one or all DSL channels simultaneously; however, only one PH LPBK test may be performed per PH (refer to the PS test type for limitations). Requesting a PH LPBK test of the D-channel, always blocks call processing on CS B-channels.

DEFAULT: The LT is the default for T-DSLs and the NT1 is the default for U-DSLs.

`r` = Customer interrupt (INT) allowed.

This is the type of customer service request allowed to interrupt the testing procedure. This parameter allows the user to minimize the customer impact associated with performing a LPBK test. Because all LPBK tests block customer service on one or more DSL channels, the INT parameter should be considered whenever performing routine or preventive maintenance during periods of high or moderate customer usage. When a test is aborted, test results up to that point and the elapsed test time are delivered to the user. The INT parameter only applies to LPBK tests, as other test types are of either a fixed, short duration or are non-invasive with respect to the customer. To assure the collection of a minimum test data set, a minimum test

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duration may be specified (refer to the MDUR parameter).

In all cases, only customer CSV or CSD requests to originate calls on or terminate calls to the DSL under test can cause the test procedure to be aborted. That is, only customer service requests that require the use of a CS DSL channel that is under test, cause the test to be aborted. Test procedures on permanent packet DSL channels cannot be aborted for incoming packets.

Whenever the D-channel is looped back, the CPEs are effectively cut-off from the switch and customer originations from the CPE cannot be detected by the switch. The D-channel can be placed in LPBK even if that channel is not tested. For example, a request to test one or more B-channels using an AMI CU termination requires the LPBK of ALL DSL channels (refer to the TERM=CU parameter). Valid value(s):

`BOTH` = Call originations from or terminations to the DSL under test cause the test procedure to be aborted.

`ORIG` = Call originations from the DSL under test cause the test procedure to be aborted.

`TERM` = Call terminations to the DSL under test cause the test procedure to be aborted.

DEFAULT: By default, the customer is denied service on the DSL channel(s) required for testing, for the full test duration.

`s` = Duration (DUR) of test (0-3600, default 20).

The duration is the length of time (in seconds) that the test source (such as, ISTF, GDSF or PH) sends test data. In general, the test duration does not include the setup time, camp-on time, or idling time associated with any test request. The elapsed time taken for the test request to complete can be significantly greater than the actual test duration (refer to the MODE parameter).

LPBK testing for CS, PS, and AUTO tests accepts durations of 1 to 3600 seconds, since a value of zero is meaningless.

The CRC test accepts a duration of zero to request a read only of PM counts (no CRC corruption is done). This is useful for obtaining the current PM counts or obtaining the counts associated with a CRC test that has just finished.

The IDCU CRC maximum test duration is 255 seconds (4 minutes, 15 seconds)

For ISLU and AIU CRC testing, the test duration that is output is greater than the requested duration. This is due to internal delays associated with starting and stopping the accumulation of CRC results. The actual time the test runs is printed on output.

`t` = Minimum test duration (MDUR) (1-3600).

The test procedure is not aborted for customer service requests (refer to the INT parameter) until the minimum test duration, in seconds, has elapsed. Use of this parameter assures the collection of test data for at least the MDUR specified. That is, the customer is denied service on the associated channel(s) until MDUR elapses.

If MDUR is specified in the absence of the INT parameter, the test request is implied to be

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interruptible when the MDUR has elapsed. For requests that require control of the D-channel, testing is interruptible for only terminations when the MDUR elapses. In all other cases, testing is interruptible for both originations and terminations.

u = Data rate.

This is rate of the digital bit stream to be sourced by the ISTF|GDSF during CS LPBK testing. The configuration of SM umbilicals must be consistent with the data rate chosen. The test equipment may be located in any SM; therefore, the test port and the port under test can be located in the same or different SMs (which may be connected by an umbilical). Valid value(s):

AUTO = Automatically select the effective data rate (default).
64CLR = 64000 bits/sec clear channel (that is, zero-octet allowed).
64RES = 64000 bits/sec restricted (that is, zero-octet suppressed).
56KPS = 56000 bits/sec.

DEFAULT: By default, the effective data rate is determined by automatically attempting to synchronize for 6 seconds at each valid data rate. AUTO data rate selection is complete and testing begins when synchronization is first achieved, trying first at 64CLR, then 64RES and then at 56KPS. If synchronization cannot be achieved, testing will fail indicating "FAULT IN LOOP OR PATH" at the 56KPS data rate.

In general, SM umbilicals capable of supporting the 64CLR data rate support all other data rates; however, a lower data rate umbilical is incompatible with digital testing performed at a higher data rate. In the later case, digital testing fails consistently with "FAULT IN LOOP OR PATH". An ISTF|GDSF should never be configured in a SM that is connected via 56KPS|64RES umbilical. This would effectively restrict LPBK testing in ALL SMs to that data rate. It makes no difference if there is other test equipment available, as the lower rate equipment is selected randomly. It also makes no difference if there is a second 64CLR umbilical added, as the wrong umbilical is assigned randomly.

The data rate must also be matched with the facility being tested. If a customer complaint is associated with a service that is subscribed at 64CLR, that data rate must be explicitly provided in the test request (by default, the effective data rate is used and the associated problem may not be seen at that rate). In addition, if digital testing is performed as part of preventive maintenance, the 64CLR data rate must be specified to evaluate DSLs at the highest rate possible.

v = Block-size (BLKSZ) (1-64000).

For CS LPBK testing, the digital-bit-stream is partitioned into segments called blocks, specified using the BLKSZ parameter. The BLKSZ is the number of bits in each block. The BLKSZ is used by the ISTF|GDSF to calculate the total ERBLK for output. The ERBLK result characterizes the accumulation of bit-errors. Varying the BLKSZ allows the distribution of errors over time to be better understood. If BLKSZ is not specified, the default is chosen based on the data rate used. Valid default value(s):

56000 = For RATE=56KPS
64000 = For RATE=64RES or RATE=64CLR

w = Acceptable bit error rate (0-9, default 6).

The ABER is used by the ISTF|GDSF to determine when a CS LPBK test request is all test pass (ATP), passes degraded (DGR), or fails (FAILED). The ABER does not modify the pass/fail criteria for PS LPBK tests.

The ABER defines the failing BER as a negative power of ten. That is, an ABER of 6 defines the failing BER as 1 or more bits in error, for every 1,000,000 bits transmitted.

x = Mode of testing. The mode parameter provides a mechanism through which additional attributes may be attached to a specific test request. Valid value(s):

SNGL = In single section mode, the test request is stopped after performing one test as specified and generating the associated result output. This is the default mode of testing.

SECT = The sectionalization mode of testing is used to automatically isolate the operative/faulty portion of a DSLs digital path or transmission loop. This is accomplished by dividing the path and loop into a finite number of testable sections that are delineated by the available LPBK terminations. The maximum number of test sections possible is 10 for *ANSI*® U-DSLs, 8 for AMI U-DSLs and 3 for T-DSLs.

Testing begins with the section of the LOOP|PATH that ends at the LPBK termination selected. If that test produces a passing result, SECT mode testing is complete; however, in the event of failure, testing automatically continues with the next testable section, by changing the LPBK termination. The ABER parameter can be used to change the criteria for ending sectionalization testing. The selection of subsequent test sections effectively shortens the LOOP|PATH and causes diagnosis to approach the test source itself (such as, PH). The testing procedure continues in this manner, until a passing result is obtained or all possible sections (that is, terminations) have been exhausted.

Whether the SECT mode test terminates successfully or with failure, output messages always indicate the section of the LOOP|PATH affected by displaying the current LPBK termination. SECT mode testing can proceed to the next section for failures that are not transmission oriented (such as, layer 1 down beyond the LT results in the test proceeding at the LT).

The default output procedure generates only one result message for each DSL channel tested. This is a concise output strategy; however, all failures encountered at other test sections are not output unless the V parameter is specified.

SEQ = The sequence (SEQ) test mode performs a series of digital LPBK tests that begin at the LPBK termination specified and continue until all possible terminations between that point and the test source have been used. Results are unconditionally generated subsequent to performing each test. This test verifies the LPBK functionality within each associated unit. That is, the equipment may perform its primary function flawlessly; however, the LPBK function within that unit can be faulty.

USER = The scope of testing is limited to the DSL channel(s) supporting USER subscribed communication service(s) associated with a specific DN. DSL channel(s) associated with a users PPD, ODP, PPB, CSV or CSD service(s) are considered for testing (for DSL channels on which service is not assigned, testing is not performed). This mode of testing verifies office-dependent data

(ODD) as well as the subscribed service.

The DSL user must be identified by subscriber DN. Either the DN is given directly, or it is derived from the OEN and a TEI that is assigned to a bound CPE. Only the communication services assigned to that DN are tested.

The actual test performed is always a PS or CS digital LPBK test. The PS test is used to evaluate PPD, PPB or ODP services. The CS test is used to evaluate CSV or CSD services. If the test type is not specified (that is, AUTO), it is selected based upon the service(s) that can be connected to each DSL channel tested. The scope of testing can be limited to specific services by specifying the associated test type (such as, CS). The scope of testing may be further limited by specifying a specific DSL channel (such as, CH=B1).

Various combinations of DSL services cannot be tested simultaneously; therefore, testing may be performed in two sections. For example, if ODP and CSV service are subscribed to the same DN, a CS B1-channel must undergo CS and PS testing. In this case, the PS test is performed in the first section and the test type is changed to CS for the second section.

The reason for testing specific DSL channel(s) can be derived from output. If a PS test is performed on the D-channel or a B-channel, the subscribed service is respectively, PPD or PPB. If an ODP switched (ODPS) test is performed, ODP service is subscribed. If a CS test is performed, the user typically subscribes to CSV and/or CSD services.

In general, all modes of testing are subject to a two-try retest in the event that specific testing resources are unavailable. For example, subsequent to obtaining control of associated DSL channels, test equipment may be unavailable. Rather than aborting the test request on all channels, testing continues on DSL channels having test equipment. After testing completes on those channels, the channel(s) that experienced a resource problem are tried again. If the test equipment has become available, the test proceeds to completion and test results for all channels are output. This results in extending the elapsed test time up to three times the test duration for the affected test section. If the test duration is greater than one minute, an intermediate status message is output to inform the user that a retest is in progress on the indicated channel(s).

When a retest or a new test section is performed, the test equipment and associated digital path(s) from the previous test are not reserved. That is, for each test section, control of the test equipment is regained and the digital path is reestablished. This can result in unexpected failures, when the test equipment or a digital path component (such as, RTDS1) becomes unavailable. For each CS test section, a different ISTF|GDSF channel or an ISTF|GDSF in a different SM may be used (refer to the RATE parameter). For each ODPS test section, a different PH channel may be used (that is, If the user is served by two PH channels).

`Y` = Perform requested action unconditionally. This parameter specifies an unconditional action that should be performed as part of the test request. Use of this parameter terminates active customer calls.

Valid value(s):

`PRMT` = In general, if any of the DSL channels or resources required for testing are busy, the associated call or maintenance procedure is prematurely

terminated. The only exceptions are those procedures that execute with a high priority. In those cases, a PRMT request fails indicating the "port is still busy". Camp-on does not occur for PRMT requests.

The PRMT request is denied in specific cases. Attempts to test any B-channel are not permitted with the PRMT parameter, as the switch does not arbitrate which of possibly two B-channel procedures to terminate. Prior to testing DSLs supporting a OSPS facility, application processor (AP) or data link (DL), the resident procedure supporting operations must be disabled. This is accomplished by placing the DSL in an OOS state. The PRMT parameter cannot be used to terminate that procedure.

`NTM` = NT1 or CU "test mode" indications should be ignored ("test mode" indicates the CPE has control of the NT1 or CU LPBKs). Any test results obtained in "test mode" may be corrupt; however, this may be useful when the "test mode" indication is believed to be in error (refer to the `EQCU=TESTx` parameter in the TST:DSL output message).

4. SYSTEM RESPONSE

`PF` = Printout follows. If the test request is incomplete or invalid, a single TST:DSL output message is generated indicating the failure.

If the test request is complete, the test procedure attempts to seize control of all DSL resources required for testing. If UCL=PRMT was specified and all required DSL resources cannot be obtained immediately, the output message indicates the "port is still busy". The same output message is generated, when the camp-on period elapses.

After obtaining DSL resource ownership the test procedure outputs a "testing begins" message. The test procedure then attempts to obtain the necessary test equipment and complete the test request.

The number of TST:DSL output messages generated varies in accordance with the number of DSL channels tested and the MODE of testing selected. In general, an output message is generated for each DSL channel tested; however, if the same failure occurs on all channels tested, one output message may be output for all channels. Primarily, the test duration determines the elapsed time between output messages for multi-section tests. A unique request number is given to each test procedure and is given in the resulting output messages. When a TST:DSL request is complete, an end-of-transmission (EOT) flag appears on output.

`RL` = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ALW:ALE
ALW:DEBUG
EXC:ALE
INH:ALE
INH:DEBUG
```

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```
OP:CONV
OP:CPE
OP:JOBSTATUS
OP:STATUS
RMV:LINE
RMV:DATALINK
STP:TST-DSL
```

Output Message(s):

```
EXC:ALE
OP:CPE
TST:DSL
```

RC/V View(s):

22.15 (THRESHOLD GROUP).

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TST:E911

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an enhanced 911 (E911) test query be sent to the enhanced 911 service adjunct (ESA) to retrieve an emergency service number (ESN).

2. FORMAT

```
TST:E911=a[,VERBOSE][,{ALT|SITE=b}];
```

3. EXPLANATION OF MESSAGE

`ALT` = The alternate ESA (listed in RC/V View 8.1 field "SEC E911 APID") is queried.

Note: The ALT and SITE optional parameters can not both be specified on the same input message. The ALT optional parameter will result in a error message if the DUAL ESA feature is not licensed, enabled or if the alternate site has not been specified in the RC/V View.

`VERBOSE` = The routing information associated with the retrieved ESN is also requested.

`a` = Ten-digit billing number or calling party number to be queried.

`b` = The site ID of an alternate ESA to be queried. If this option is not specified (which is the common situation), the site ID is obtained from the GLE911APID or GLE911SEC office parameter. If the dual ESA enhancements feature is not enabled, GLE911APID is used. If the dual ESA enhancements feature is enabled, the current active ESA APID, which may be either GLE911APID or GL911SEC, is used.

Note: The ALT and SITE optional parameters can not both be specified on the same input message.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `DUAL ESA FEATURE NOT ALLOWED` = The test message can not be sent. Dual ESA is a licensed feature, that must be purchased before it can be used. Please contact your Account Representative for information on purchasing and then authorizing the dual ESA feature.
- `DUAL ESA NOT CONFIGURED` = The test message can not be sent. The alternate (secondary) ESA site ID must be entered in RC/V View 24.7.
- `E911 FEATURE NOT ALLOWED` = The test message can not be sent. E911 is a licensed feature, that must be purchased before it can be used. Please contact your Account Representative for information on purchasing and then authorizing

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the dual ESA feature.
- `ESA NOT CONFIGURED` = The test message can not be sent. The E911 office option (GLE911OP) does not support an ESA.
- `FAILED TO SEND QUERY MESSAGE` = The attempt to send the query message to the CMP failed.
- `INVALID INPUT IN FIELD 'a'` = There is either an invalid character in variable '`a`', or an incorrect number of digits was input. There must be 10 digits input at '`a`'.
- `INVALID INPUT IN FIELD 'b' –` = There is either an invalid character in variable '`b`', or the entry is out of the range (1-255).
- `SITE ID DOES NOT EXIST` = The SITE ID input in variable '`b`' does not exist.
- `SYSTEM ERROR` = An internal system error has occurred.

`PF` = Printout follows. Followed by a TST:E911 output message.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The test message can not be sent. The communications module processor (CMP) is available.
- `OTHER REQUEST IN PROGRESS` = An E911 test query or an ESA request is currently in progress.

5. REFERENCES

Output Message(s):

`TST:E911`

Other Manual(s):
235-190-115 *Local and Toll System Features*

RC/V View(s):

8.1 (OFFICE PARAMETERS)
8.22 (SECURED FEATURE UPGRADE)
24.7 (DSL AP COMMUNICATIONS DATA)

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TST:FAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a test (connectivity exercise) of the connection of a remote switching module (RSM) facility (FAC).

A FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. The test does not interfere with stable calls, and may be run on an in-service or out of service (OOS) facility. The request is not honored if a carrier group alarm is present on the RDFI or CDFI.

2. FORMAT

```
TST:FAC=a-b-c-d;
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number.

`b` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = RSM digital facilities interface (RDFI) or inter-RSM communication link digital facilities interface (CDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = FAC number. The FAC number is the T1 facility number on a RDFI or CDFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

```
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST
```

`PF` = Printout follows. A TST:FAC output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:FAC
```

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Output Message(s):

```
TST:FAC
```

Output Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

TST:GRC

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) test update job be run to verify that the correct updates will be applied.

If the updates are not desired at this time, then when the GRC test update job is completed, backout the updates using the SCHED:GRC input message. After the backout is completed, then reschedule the GRC update job for its original time and date using the SCHED:GRC input message.

2. FORMAT

```
[1]    TST:GRC,NAME=a[,SECT=b],TN=c[-d];

[2]    TST:GRC,NAME=a[,SECT=b],MLHG=e[-f][,MEMB=g[-h]];
```

3. EXPLANATION OF MESSAGE

`a` = GRC name (up to 10 characters).

`b` = GRC section number.

`c` = First telephone number (TN) in the range of lines to be tested.

`d` = Last TN in range of lines to be tested.

`e` = First multi-line hunt group (MLHG) number in range to be tested.

`f` = Last MLHG in range to be tested.

`g` = First MLHG member number to be tested.

`h` = Last MLHG member number to be tested.

4. SYSTEM RESPONSE

`NG` = No good. The request was denied. A GRC:ERROR output message will provide the reason for the failure.

`PF` = Printout follows. A GRC:STATUS output message will follow indicating the beginning of the operation.

5. REFERENCES

Input Message(s):

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```
REPT:GRC
RMV:GRC
SCHED:GRC
```

Output Message(s):

```
GRC:ERROR
GRC:STATUS
```

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-070-100 *Administration and Engineering Guidelines*
235-118-251 *Recent Change Procedures*
235-118-25x *Recent Change Reference*

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TST:GRID

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the fabric exerciser to be run on a line unit grid.

2. FORMAT

```
TST:GRID=a-b-c[,UCL][,RAW][,AUD][,PH={d[&&e]}][,TLP];
```

3. EXPLANATION OF MESSAGE

`AUD` = Audit the state of the crosspoints. Crosspoints that disagree with the software status will be printed and corrected.

`RAW` = Report the internal software benchmark number in the event of a failure.

`TLP` = Report a trouble location procedure (TLP) suspect circuit pack list if there is a failure.

`UCL` = Execute all tests in the phase(s) requested unconditionally.

`a` = Switching module (SM) number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Number of the phase to be run, or the lower limit of a range of phases.

`e` = Upper limit of a range of phases to be run.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid but the request conflicts with current status.

`PF` = Printout follows. The request has been received. The TST:GRID output message will follow.

5. REFERENCES

Output Message(s):

`TST:GRID`

Output Appendix(es):

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```
APP:RANGES
```

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TST:GRIDBD

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Tests a specified gated diode crosspoint half-grid board in a line unit model 2; (LU2) or a line unit model 3; (LU3) by running a fabric exerciser routine.

2. FORMAT

```
TST:GRIDBD=a-b-c-d[,UCL][,RAW][,TLP][,AUD][:PH={e|e&&f}];
```

3. EXPLANATION OF MESSAGE

`AUD` = Audit the state of the first and second stage crosspoints and open any crosspoints that were found closed.

`RAW` = Print data from raw data test failure.

`TLP` = Output a trouble location procedure (TLP) suspect pack list if a failure occurs.

`UCL` = Unconditionally execute the test.

`a` = Switching module number.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = The number of the diagnostic phase to be performed or the lower limit of a range of phases.

`f` = The upper limit in the range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

`PF` = Printout follows. Followed by a TST:GRIDBD output message.

5. REFERENCES

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Input Message(s):

```
STP:GRIDBD
```

Output Message(s):

```
TST:GRIDBD
```

Output Appendix(es):

```
APP:RANGES
```

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TST:GSMNET

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs). CMT is the ability to transport CCS messages internally within the switch.

2. FORMAT

```
TST:GSMNET,[GSM=a],[NGSM=b];
```

3. EXPLANATION OF MESSAGE

`a` = GSM number. If no SM number is specified and only one CCS GSM exists in the office, that GSM will be defaulted. If multiple GSMs exist, then the GSM must be specified. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Specific NGSM (the default is ALL NGSMs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = The request has been accepted. Followed by the TST:GSMNET output messages.

`NG` = No good. May also include:

- `SM # UNEQUIPPED` = This response indicates that the input GSM is not an equipped SM. This error is only valid for the input GSM.
- `NOT A GSM` = This response indicates that the input GSM is not provisioned as a HOST or ISLAND GSM.
- `NO GSM PROVISIONED` = This response indicates that no GSM was specified, and there are no GSMs provisioned in the office.
- `GSM MUST BE SPECIFIED` = This response indicates that no GSM was specified, and there is more than one GSM provisioned in the office.
- `NO NGSM PROVISIONED` = This response indicates that no NGSM is provisioned for the identified GSM, which should be a transient condition during a growth/degrowth sequence.
- `INVALID NGSM` = This response indicates that the NGSM specified to restrict output is not served by the input GSM.
- `TST GSMNET IN PROGRESS` = This response indicates that another TST:GSMNET request is underway and this request will not be processed.

5. REFERENCES

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Output Message(s):

```
TST:GSMNET
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-200-116 *Signaling Gateway Common Channel Signaling*

MCC Display Page(s):

1540	GSM CMT STATUS
1541	NGSM CMT STATUS

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TST:ICCV

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an international credit card validation (ICCV) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to a foreign data base to verify its operation.

2. FORMAT

```
TST:ICCV=a-b-c,TTYP=d,OPCD=e[,{CLD|ICLD}=f];
```

3. EXPLANATION OF MESSAGE

`a` = Issuer identification number of the telecommunications calling card (89C) number to be queried. This field will be 2-7 digits in length (enter the full card number).

`b` = Individual account number of the 89C calling card number to be queried. This includes a check number, if required. This field will be a maximum of 15 digits; however, this field together with the issuer identification number will be 7-19 digits in length.

`c` = Personal identification number (PIN). The PIN can be a maximum of 13 digits. If no PIN exists for the card, enter 0.

`d` = Translation type. The translation type is used in the TCAP query and indicates to the signaling transfer point (STP) which translation tables should be used to obtain routing information for the query. The translation type is a number from 0 to 255.

`e` = Operation code. The operation code specifies which International credit card validation (ICCV) features are active in the switch. Each bit of the 8-bit operation code indicates whether the corresponding ICCV feature is applicable or not in the switch. The bits in order from low to high and their associated features are:

Feature	Bit Value	Bit Position
Basic Validation	1	0
CDM	2	1
CDBS	4	2
Call Gapping	8	3
Geographic Restriction	16	4
Partial Purchase Limit	32	5
Full Purchase Limit	64	6
NOT USED	128	7

The operation code is the sum of the bit values of all applicable ICCV features. For example, if Basic Validation, CDBS, and Geographic Restrictions are applicable, the operation code will have a value of 21, which is the sum of 1, 4, and 16. The valid range is 1-95 because partial purchase limit is not supported. For inward calls, only values 1, 5, 17 and 21 are allowed.

`f` = The called number (maximum 15 digits with no prefix). This is either a 10-digit North American numbering plan (NANP) number (that is, NPANXXXXXX) which will be specified by the tag CLD, a 7- to 15-digit international number will be specified by the tag ICLD (such as, CCXXX...XXX) or 0 indicating no called number. If this entry is omitted, a default value of 0

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(no called number) will be used. Note that N11 numbers (such as, 411, 611,911) must be entered as N110000000 in order to distinguish the N11 number from a 3-digit international country code. Note also that customer-initiated card calls to 411 contain the NPA-555-1212 (with calling number's NPA) as the called number in the query to PTT database. Test queries need NPA-555-1212 explicitly specified if the calling number NPA is known.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- CNI NOT AVAILABLE = The test query cannot be sent to the CAS/NCP data base because the common network interface (CNI) or CCS7 links are not available.
- INVALID CARD NUMBER = The input card number must be at least 7 digits, and at most 19 digits in length. The card number is composed of the issuer identification number and the individual account number (including the check number).
- INVALID FORMAT FOR DOMESTIC NUMBER. PLEASE USE NPANXX..XXX = The format for a domestic number must be NPANXX..XXX.
- INVALID FORMAT FOR INTERNATIONAL NUMBER. PLEASE USE CCXXX..XXX = The format for an international number must be CCXXX..XXX without the prefix 01.
- INVALID ISSUER ID NUMBER = The issuer identification number must be at least 2 digits, and at most 7 digits in length. In addition, the first two digits of the card number must be "89".
- INVALID OPERATION CODE = The operation code must be in the range of 1 to 95.
- INVALID PIN = The PIN must be at most 13 digits in length.
- INVALID TRANSLATION TYPE = The translation type must be a number from 0 to 255.

PF = Printout follows. The request has been received. Output message TST ICCV will follow.

RL = Retry later. Valid value(s):
- INTERNAL ERROR = There was a problem reading the RLDS_APP relation (recent change view 8.17 - direct signaling applications), to obtain a subsystem number.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE
```

Output Message(s):

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```
EXC:DSTT
TST:BNS
TST:CAS
TST:CAS7
TST:ICCV
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE
```

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)

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TST:INWATS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an inward wide area telecommunications service (INWATS) direct signaling query be sent to the INWATS database to verify its operation. This input message does not support NS800 calls. For NS800 test queries, use the TST:NS800 message.

2. FORMAT

```
TST:INWATS=a,ONPA=b;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = INWATS number to be tested. This number must be a string of ten digits which must start with 800, such as 8007654321.

`b` = Three-digit area code indicating where 800 number is originated.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `CNI NOT AVAILABLE` = The test message can not be sent. The common network interface (CNI) is not operational or is in overload. Check CNI status and wait 10 minutes before requesting another test.
- `INVALID INPUT FIELD a` = There is either an invalid character in field '`a`', or an incorrect number of digits. There must be 10 digits input in field '`a`'.
- `NO REPLY INDEX AVAILABLE` = Switch could not send test message because a reply index was not available.
- `REPLY RELATION PROBLEM` = Switch could not send test message. A reply index was available, but the relation could not be updated.

`PF` = Printout follows. The request has been received. Followed by the TST:INWATS output message.

`RL` = Retry later. May also include:
- `TEST IN PROGRESS` = A common channel signaling (CCS) test is currently in progress.

5. REFERENCES

Input Message(s):

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```
EXC:DSTT
TST:NCD
TST:NS800
```

Output Message(s):

```
EXC:DSTT
TST:INWATS
TST:NCD
```

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TST:IPNET

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a measurement of the quality of service in an internet protocol (IP) network. The test measures round trip delay (RTD) between a source IP soft hand-off (SHO) protocol handler (PH) or a source network protocol handler (NPH) or a source IP backhaul protocol handler (IPBPH) and a far endpoint. The far endpoint could be another IP SHO PH when the source is IP SHO PH. The far endpoint could be another NPH or IP SHO PH when the source is NPH. The far endpoint could be another IPBPH or base transceiver station (BTS) when the source is IPBPH.

Either a serving IP address or a protocol handler group (PHGRP) can be used as the source and either a far IP address or a far community address (CA) can be used as the far endpoint. Other parameters can be specified on the command line such as the number of packets to send per second, the size of the packets and the number of seconds to send the packets. If these values are not entered, the defaults are 50 packets per second for 60 seconds with a packet size of 44 bytes. Other optional parameters include the far subnetwork (SN), the differentiated service code point (DSCP), the average RTD threshold, the percentage, the percentile RTD threshold and the user datagram protocol (UDP) port. If the far SN is not entered, it will default to the office SN. If the average RTD threshold, percentage, or percentile RTD threshold are not entered, they will default to the values provisioned on the RC/V View 22.32 (PROTOCOL HANDLER GROUP DEFINITION). If the DSCP is not entered, it will default to the high DSCP value provisioned on RC/V View 22.32 for source IP SHO PH, or the DIFF SRV CODE POINT value provisioned on RC/V View 22.32 for source NPH. If the UDP port is not entered, it will default to the network test port 55003 (3456 for IPBPH). If the far UDP port is not entered, it will default to the network test port 55003 (3456 for IPBPH). If the far UDP port is entered with 7, it initiates a loop back test from IPBPH to BTS. It is recommended that no more than 2 executions of the input message TST:IPNET be initiated on the same BTS. It is not constrained in the software and the technician who is using the input message needs to be aware of it.

Several things are verified before the test can officially begin. For example, the test will not be started if there are errors in the input parameters, if the source PH is out of service or if the source PH does not know about the far endpoint. If these problems do not exist, an end to end connectivity check will be initiated. This check is done to ensure the far endpoint is able to receive packets from the source PH as well as route packets back to the source PH. If the end to end connectivity check fails, the test is aborted. If the end to end connectivity check succeeds, the test will officially begin and packets will be sent to the far endpoint.

The far endpoint simply loops the packets back to the source so round trip delay can be calculated.

Average and percentile delays are the key components for this test and each has its own pass or fail value. If the actual average delay is less than or equal to the provisioned or requested average delay threshold, the average delay result will be reported as PASSED. If the actual average delay is more than the provisioned or requested average delay, the average delay result will be reported as FAILED. For percentile round trip delay, the percentage value is coupled with the percentile delay threshold. If the provisioned or requested percentage of packets received are within the percentile delay threshold, the percentile delay result will be reported as PASSED. If the provisioned or requested percentage of packets received are not within the percentile delay threshold, the percentile delay result will be reported as FAILED.

If a switch occurs in the middle of this test and not all of the packets have been sent, the test will abort. However, if the switch occurs after all the packets have been sent, the test will time out.

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2. FORMAT

```
TST:IPNET,{SERVIP=a | PHGRP=b-c-d},{FARIP=e | FARCA=f}[,PCKTS=g][,DUR=h]
[,MSGSIZE=i][,FARSN=j][,DSCP=k][,AVGDELAY=l][,PERDELAY=m][,PERCENT=n][,UDP=o][,FA
RUDP=p];
```

3. EXPLANATION OF MESSAGE

`a` = Serving IP address.

`b` = Switching module (SM). Refer to the APP:RANGES appendix in the Appendixes section of this manual.

`c` = Packet switch unit (PSU). Refer to the APP:RANGES appendix in the Appendixes section of this manual.

`d` = Protocol handler group (PHGRP). Refer to the APP:RANGES appendix in the Appendixes section of this manual.

`e` = Far end IP address.

`f` = Far end PSU community address of the PSU (1 - 254).

`g` = Number of test packets to be sent to the far end (1 - 50).

`h` = Test duration in seconds (1 - 300).

`i` = Size of the payload in each packet (44 - 1400 bytes for IP SHO PH or IPBPH, 44 - 400 bytes for NPH).

`j` = Far end subnetwork (0 - 3).

`k` = Differentiated service code point (decimal 0 - 63 or hexadecimal h'0 - h'3F).

`l` = Average delay of the packets in microseconds (500 - 200000).

`m` = Percentile delay of the percentage of packets in microseconds (500 - 200000).

`n` = Percentage of packets that will be received within the percentile delay range (1 - 100).

`o` = User datagram protocol (55002 or 55003).

`p` = FAR user datagram protocol (7 for BTS, 3456 for IPBPH, 55002 or 55003 for NPH or IP SHO PH)

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more TST:IPNET output message.

`NG` = No good. May also include:

- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.

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- NOT A VALID SOURCE = The request has been denied. The message is valid but the source input is invalid.
- SERVING IP ADDR NOT FOUND = The request has been denied. The message is valid but the serving IP address is invalid.

RL = Retry later. May also include:
- CMP UNAVAILABLE = The request has been denied. The message is valid but the communication module processor (CMP) is unavailable.
- SM UNAVAILABLE = The request has been denied. The message is valid but the SM is not available.

5. REFERENCES

Output Message(s):

TST:IPNET

Input Appendix(es):

APP:RANGES

TST:LAC

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a line applications for consumers (LAC) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the number 2 LAC (2LAC)/network control point (NCP) to verify its operation.

2. FORMAT

```
TST:LAC={BLG=a|BNS=a|CCRD=a-b},SW=c[,TTYP=d][,{CLD|ICLD]=e]
  [,{CLG|ICLG}=f][,STD=g][,XCAP=h][,XMODE=i][,XRATE=j]
  [,{OLI|II}=k][,OLS=l][,OST=m][,CTYP=n][,CSI=o]
  [,RSP=p][,NAI=q][,LIDB=r][,CICEXP=s]
```

3. EXPLANATION OF MESSAGE

`a` = Billing number. For sent-paid queries, use the `BLG=` keyword with a phone number as the billing number. For billed number screening (BNS) queries, use the `BNS=` keyword with a phone number. For card queries (CCRD), use the `CCRD=` keyword with a 10-digit calling card account number.

`b` = Personal identification number (PIN). This is included for card queries only.

`c` = Switch type. This input request can emulate queries that would normally originate from several switch types. Valid value(s):

`4ESS`	= *4ESS™* switch.
`5ETOLL`	= *5ESS®* toll switch.
`OSPS`	= Operator services position system (OSPS) switch.

`d` = Translation type. This is a number from 0 to 255 which is used by number 2 signal transfer point (2STP) routing tables to determine the destination of the query.

`e` = Called number. For international numbers, use the `ICLD=` label with a 4- to 15-digit international number. For North American numbering plan (NANP) numbers use the `CLD=` label with a 10-digit phone number.

`f` = Calling number. For international numbers, use the `ICLG=` label with a 4- to 15-digit international number. For NANP numbers use the `CLG=` label with a 10-digit phone number.

`g` = Coding standard. If no value is entered for coding standard, but a data is entered for one or more of transfer capability, transfer mode, or transfer rate, then `ITU-TS` will be sent in the query. If no values are supplied for any of these fields, then this field will not be sent in the query. Valid value(s):

`CCITT`	= International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) standard.

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INTL = Reserved for other international standards.
NATL = National standard.

h = Transfer capability. If no value is entered for transfer capability, but a data is entered for one or more of coding standard, transfer mode, or transfer rate, then SPEECH will be sent in the query. If no values are supplied for any of these fields, then this field will not be sent in the query. Valid value(s):

3K = 3.1 kHz audio.
7K = 7 kHz audio.
15K = 15 kHz audio.
DIG = Unrestricted digital information.
RDIG = Restricted digital information.
SPEECH = Speech.
VIDEO = Video.

i = Transfer mode that was input. If no value is entered for transfer mode, but a data is entered for one or more of coding standard, transfer capability, or transfer rate, then CIRCUIT will be sent in the query. If no values are supplied for any of these fields, then this field will not be sent in the query.

CIRCUIT = Circuit mode.
PACKET = Packet mode.

j = Transfer rate. If no value is entered for transfer rate, but a data is entered for one or more of coding standard, transfer capability, or transfer mode, then CHSIZE will be sent in the query. If no values are supplied for any of these fields, then this field will not be sent in the query. Valid value(s):

64K = 64 Kbit/second.
384K = 384 Kbit/second.
1500K = 1536 Kbit/second.
1900K = 1920 Kbit/second.
CHSIZE = Transfer rate dictated by the size of the channel.

k = Originating line information (OLI) or automatic number identification (ANI) information digits (II). For OLI data use the OLI= keyword. For II data use the II= keyword. This field is only permitted for CCRD and BNS queries. Valid value(s):

800CALL = Translated 800 call.
AIOD = Automatic input/output dialing (AIOD) listed directory number sent.
ANIFAIL = ANI failure.
COIN = Coin line.
NONCOIN = Identified line (coin or noncoin).
COINLESS = Coinless, hospital, or inmate call.
HOTEL = Hotel without room identification.
IDLINE = Identified line with no special treatment.
RESTR = Interlata restricted.
ONI = Operator number identified (multiparty).
OPER = Operator handled.
OUTWATS = Outbound wide area transport (OUTWATS) line.

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RCOINLESS = Interlata restricted coinless line.
RHOTEL = Interlata restricted hotel line.
TEST = Test call.
VPN = Virtual private network line.

l = Originating line screening (OLS) information. This is a number from 0 to 999. This field is only permitted for CCRD and BNS queries.

m = Originating station type (OST). This field is only permitted for CCRD and BNS queries. Valid value(s):
ACQS = Automatic charge quotation system (ACQS) phone.
ACQSHOTL = ACQS hotel phone.
NAHOTL = Non-ACQS hotel phone.
NCNPUB = Non-coin public phone.
CNPST = Post-pay coin phone.
CNPRE = Pre-pay coin phone.
UNKN = Unknown station type.

n = Call type. This field is required for BNS queries, and is not permitted for CCRD or sent-paid queries. Valid value(s):
COLLECT = BNS collect call.
PAID = BNS sent paid call.
THIRD = BNS bill to third number call.

o = Carrier selection information (CSI). If no CSI value is entered, "UNKNOWN" will be used. Valid value(s):
INPUT = Selected carrier presubscribed and input by calling party.
NOIND = Selected carrier presubscribed and no indication of input by calling party.
NOTINPUT = Selected carrier presubscribed and no input by calling party.
NOTPRE = Selected carrier not presubscribed and input by calling party.
UNKNOWN = No indication.

p = 'Response required' indicator. A value of "YES" indicates that the 2LAC/NCP must always return a reply in response to the test query. A value of "NO" indicates that the 2LAC/NCP must only return a reply for deny and error cases. If no value is entered, a default value of "YES" will be used.

q = 'Network access interrupt (NAI)' indicator. A value of "YES" indicates that the 2LAC/NCP should apply NAI processing to the query. A value of "NO" indicates that NAI processing should not be applied. If no value was input, a default value of "YES" will be used. A value of "NO" is only permitted for CCRD and BNS queries.

r = Line information database (LIDB) indicator. A value of YES indicates that the 2LAC/NCP should forward the calling card or BNS information contained within the query to a LIDB for processing. A value of NO indicates that the query should not be forwarded to a LIDB. If no input was given for CCRD or BNS queries, YES will used. For sent-paid queries, this field must be NO.

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s = Carrier expansion indicator. The CICEXP keyword indicates that the switch can accept expanded carrier information. This keyword is only permitted with CCRD or BNS queries.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CICEXP NOT ALLOWED = The carrier expansion indicator is only permitted with CCRD OR BNS queries.
- CLD OR ICLD NUMBER REQUIRED = For sent-paid calls, a NANP or international called number is required.
- CNI NOT AVAILABLE = The test query cannot be sent to the 2LAC/NCP database because the common network interface (CNI) or CCS7 links are not available.
- CTYP NOT ALLOWED = The call type parameter is not allowed with CCRD or sent-paid queries.
- CTYP REQUIRED WITH BNS = The call type parameter is required with BNS queries.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INVALID BILLING NUMBER = The billing number must be entered with either the BLG, CCRD, or BNS keywords.
- INVALID BLG NUMBER = The billing number must be a 10-digit NANP number.
- INVALID BNS NUMBER = The billed number screening number must be a 10-digit NANP number.
- INVALID CLD NUMBER = The called number must be a 10-digit NANP number.
- INVALID CLG NUMBER = The calling number must be a 10-digit NANP number.
- INVALID CCRD NUMBER = The calling card number must be a 10-digit number.
- INVALID ICLD NUMBER = The international called number must be a 4- to 15-digit international number.
- INVALID ICLG NUMBER = The international calling number must be a 4- to 15-digit international number.
- INVALID PIN = The calling card PIN must be a 4-digit number.
- INVALID TRANSLATION TYPE = The translation type must be a number between 0 and 255.
- LIDB MUST BE NO = The 'LIDB requested' indicator cannot be "YES" for sent-paid queries. Either enter LIDB=NO, or omit the parameter entirely and use the default.
- NAI MAY BE NO ONLY WITH CCRD OR BNS = The 'NAI indicator' must be "YES" for sent-paid queries.
- OLS OUT OF RANGE = The OLS must be a number within the range of 0 to 999 (inclusive).
- OLS NOT ALLOWED = The OLS parameter is not allowed with sent-paid queries.
- OST ONLY ALLOWED WITH CCRD OR BNS = The originating station type parameter is not allowed with sent-paid queries.

PF = Printout follows. The request has been received. Followed by the TST:LAC output message.

RL = Retry later. May also include:
- INTERNAL ERROR = There was a problem reading the RLDS_APP relation (Recent Change View 8.17), to obtain the subsystem number.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.

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5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LAC
TST:RATE
```

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)

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TST:LEN

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified path be exercised through the line unit path exerciser (LUPEX). The path consists of a line equipment number (LEN), A-link, B-link, and a high level service circuit (HLSC). LUPEX exercises line unit (LU) types LU1, LU2 and LU3.

LUPEX will only run on a path where the A-link and B-link are both in service and idle, or both out of service. LUPEX will only run on lines in the pre-cutover state if the line is marked as a test line. LUPEX will not run on busy lines or lines that are marked in the office-dependent data (ODD) as incompatible equipment, private branch exchange (PBX), or *SLC®* PBX.

WARNING: While LUPEX is running, the customer whose LEN is seized will be denied service. None of the equipment specified by the input message will be available during the testing. This message should not be executed using HLSCs known to fail diagnostics as it could cause erroneous results. Also, the execution of this input message using the RAW and UCL options with the maximum RPT value may generate in excess of 1000 receive-only printer messages if many failures occur. This may delay more critical output messages.

2. FORMAT

```
TST:LEN=a-b-c-d-e-f,ALINK=g,BLINK=h-i,HLSC=j-k[,RPT[=l]][,PH=m[&&n]]
[,RAW][,UCL];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`RAW` = Produce an output message for every phase failure.

`RPT` = Repeat.

`UCL` = Execute all requested phases unconditionally without terminating on the first error before continuing with the next repeat iteration.

`a` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`d` = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Grid board A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = B-link service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Grid board B-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Note: A B-link is equivalent to a channel.

`j` = HLSC service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = HLSC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Number of times the exercise is to be repeated (1-100, default is 1).

`m` = Phase number or lower limit for range of phase numbers (1-100, default is 1 through 9). Phases will be executed sequentially.
Note: When a phase range starting above phase 3 is requested, phases 1, 2, and 3 will also run as low-level tests. They will not, however, be reported. Also, phases 94 through 99 establish and hold the path for up to 15 minutes maximum and can not use the repeat option.

Phase	Description
01	Execute false cross to ground test.
02	Execute power cross test.
03	Execute foreign potential test.
04	Execute scan cut-off stuck open and scan origination/termination tests.
05	Execute scan cut-off stuck closed test.
06	Execute first stage crosspoint stuck open test.
07	Execute first stage crosspoint stuck closed test.
08	Execute second stage crosspoint stuck open test.
09	Execute second stage crosspoint stuck closed test.
10-93	Not used.
94	Execute reverse channel battery hold path test.
95	Execute forward channel battery hold path test.
96	Execute first and second stage crosspoint hold path test.
97	Execute ring scan crosspoint hold path test.
98	Execute tip scan crosspoint hold path test.
99	Execute tip and ring scan crosspoint hold path test.
100	Not used.

`n` = Upper limit of a range of phase numbers (1-100).

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4. SYSTEM RESPONSE

NG	= No good. The request has been denied. The message form is valid but the request conflicts with current status or the unit does not exist.
PF	= Printout follows. The request has been received. Followed by the TST:LEN output message.
RL	= Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:TST-LEN
OP:OOS
STP:TST-LEN
```

Output Message(s):

```
ABT:TST-LEN
STP:TST-LEN
TST:LEN
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

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TST:LINE-ELS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests electronic loop segregation (ELS) to be run on the specified line or hardware group of lines.

Due to the introduction of Local Number Portability - NPA/NXX feature *5ESS®* office will support unique and non-unique office codes (NXX). Multiple NPAs can have same office codes. If the office code is non-unique, then the user has to specify 10 digit DNs including Area Code to correctly specify a DN. But if the office code is unique, then 7 digits are sufficient to correctly represent a DN.

The four formats all run the same tests. Format 1 specifies that the test be run on one line identified by the directory number (DN). Format 2 specifies that the test be run on one member of a multi-line hunt group (MLHG). Format 3 specifies that the test be run on a line or group of lines in a line unit model 1, 2, or 3. Format 4 specifies that the test be run on a line or group of lines in an integrated services line unit (ISLU) or a remote ISLU (RISLU). Format 5 specifies that the test be run on a line or group of lines in an integrated services line unit model 2 (ISLU2) or a remote ISLU2 (RISLU). Format 6 specifies that the test be run on a line or group of lines in an access interface unit (AIU).

2. FORMAT

```
[1]    TST:LINE,ELS,DN=a[-n];

[2]    TST:LINE,ELS,MLHG=b-c;

[3]    TST:LINE,ELS,LEN=d-e-f-g[-h[-i]];

[4]    TST:LINE,ELS,LCEN=d-k-l-m;

[5]    TST:LINE,ELS,LCKEN=d-o-l-p[-q];

[6]    TST:LINE,ELS,AIUEN=d-r-s-t;
```

3. EXPLANATION OF MESSAGE

`DN` = Directory number.

`LCEN` = Integrated services (line unit) equipment number.

`LCKEN` = Line circuit equipment number.

`LEN` = Line equipment number.

`MLHG` = Multi-line hunt group and member identifier. Multi-line hunt group and member numbers of lines which reside on integrated *SLC®* remote terminals should not be used.

`AIUEN` = Access interface unit equipment number.

`a` = Directory number of the line to be tested. Include NPA for non-unique office code DNs, and

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NPA not required for unique office code DNs. Directory numbers of lines which reside on integrated *SLC®* remote terminals should not be used.

b = Hunt group number.

c = Member number.

d = Switching module (SM) number.

e = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Grid pack number (LU1, LU2, LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

ALL = If ALL is specified for variable 'g', all 64 lines in the grid will be tested and variables 'h' and 'i' should be omitted.

h = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

ALL = If ALL is specified for variable 'h', all 32 lines on the grid board will be tested and variable 'i' should be omitted.

i = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

ALL = If ALL is specified for variable 'i', the four lines on the specified switch will be tested.

k = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

ALL = If ALL is specified for variable 'm', all 31 lines in the line group will be tested.

n = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified should be the main DN for the group and the member number specifies which member of the group will be tested. For LTSB a member number of 1 will test the lead line and a member number of 2 will test the associate line. If no member number is specified, for 1-DN LTSB, the lead line will be tested. If no member number is specified, for 2-DN LTSB, the line associated with the DN entered will be tested.

o = Integrated services line unit-2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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p = Line board number Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
ALL = If ALL is specified for variable 'p', all lines on the line group will be tested and variable 'q' should be omitted.

q = Line circuit number Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
ALL = If ALL is specified for variable 'q', all lines on the line board will be tested.

r = Access interface unit equipment number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
ALL = If ALL is specified for variable 't', all lines in the pack will be tested.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid but the request conflicts with current status.

PF = Printout follows. The request has been received. Output message TST:LINE-ELS will follow.

5. REFERENCES

Input Message(s):

```
STP:TST-ELS
```

Output Message(s):

```
TST:LINE-ELS
```

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TST:LNP

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an Operator Services Position System (OSPS) local number portability (LNP) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the LNP/network control point (NCP) data base to verify its operation.

2. FORMAT

```
TST:LNP,TTYP=d[,BLG=a][,CLD=b][,CLG=c];
```

3. EXPLANATION OF MESSAGE

The test query should contain any combination of BLG and/or CLD and/or CLG number(s) as long as at least one of the three numbers is specified.

`a` = Billing number. This is a 10-digit North American numbering plan (NANP) number.

`b` = Called number. This is a 10-digit North American numbering plan (NANP) number.

`c` = Calling number. This is a 10-digit North American numbering plan (NANP) number.

`d` = Translation type. The translation type is used in the TCAP query to indicate to the signaling transfer point (STP) which translation tables should be used to obtain routing information for the query. The translation type is a number from 0 to 255.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

- `CNI NOT AVAILABLE` = The test query cannot be sent to the LNP/NCP database because the common network interface (CNI) or CCS7 links are not available.
- `FEATURE NOT AVAILABLE` = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- `INVALID BILLING NUMBER (10 DIGITS ONLY)` = The billing number must be a 10-digit NANP number.
- `INVALID CALLED NUMBER (10 DIGITS ONLY)` = The called number must be a 10-digit NANP number.
- `INVALID CALLING NUMBER (10 DIGITS ONLY)` = The calling number must be a 10-digit NANP number.
- `INVALID TRANSLATION TYPE` = The translation type must be a number from 0 to 255.
- `NO NUMBER IN QUERY` = At least one 10 digit NANP number must be specified in the test query.

`PF` = Printout follows. The request has been received. Output message TST:LNP will follow.

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`RL` = Retry later. May also include:
- `INTERNAL ERROR` = There was a problem reading the RLDS_APP relation (Recent Change/Verify View 8.17), to obtain the subsystem number.
- `TEST IN PROGRESS` = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:BNS
TST:CCRD
TST:ICCV
TST:INWATS
TST:RATE
```

Output Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LNP
TST:RATE
TST:SDAP
```

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)

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TST:MAPTQ-A

Software Release: 5E16(2) only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a global system for mobile communications (GSM) mobile application part (MAP) test query message be sent to the home location register (HLR).

2. FORMAT

```
TST:MAPTQ,MSISDN=a,GSM=b[,NBRPLN=c][,NFORWD=d]...
  ...[,INTTYPE=e][,FORWDREASON=f][,GLOBTITLE=g]...
  ...[,TRANTYPE=h];
```

3. EXPLANATION OF MESSAGE

`a` = Mobile station international ISDN (MSISDN) number consisting of 10-11 digits. Each digit is in the range of 0-9.

`b` = Global switching module number (range of 1-192).

`c` = MSISDN numbering plan. Valid value(s):

`E164`	= ISDN/telephony numbering plan [International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) Recommendation E.164].
`E212`	= Land mobile numbering plan [ITU-TS (formerly CCITT) Recommendation E.212].
`F69`	= Telex numbering plan [ITU-TS (formerly CCITT) Recommendation F.69].
`NATIONAL`	= National numbering plan.
`PRIVATE`	= Private numbering plan.
`UNKNOWN`	= Unknown.
`X121`	= Data numbering plan [ITU-TS (formerly CCITT) Recommendation X.121].

`d` = Number of forwardings (range of 1-5).

`e` = Interrogation type. Valid value(s):

`BASICCALL`	= Basic call.
`FORWARDING`	= Forwarded call.

`f` = Forwarding reason. Valid value(s):

`BUSY`	= The mobile subscriber is busy.
`NOREPLY`	= There is no reply from the mobile subscriber.
`NOTREACHABLE`	= The mobile subscriber is not reachable.

`g` = Global title consisting of 10-11 digits. Each digit is in the range of 0-9.

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h = Translation type (range of 0-255).

4. SYSTEM RESPONSE

NG = No good. May also include:
- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- FAILED TO READ RLDS_APP = Failed to read the relation RLDS_APP using the GSM MAP application as the key. Refer to RC/V View 8.17 (DIRECT SIGNALLING APPLICATION).
- FAILED TO READ RLGTS_ADDR = Failed to read the RLGTS_ADDR relation.
- GLOBAL SM IS INVALID = The entered global switching module is either invalid or is not provisioned in the office.
- GSM MAP NOT AVAILABLE = The GSM MAP functionality has not been provisioned. Refer to RC/V Views 8.15 (CCS OFFICE PARAMETERS), 8.17, and 8.42 (CCS TCAP APPLICATION).
- INVALID DATA IN RLGTS_ADDR = There is invalid data in the rlGTS_ADDR tuple. Refer to RC/V View 8.15.
- INVALID GLOBTITLE DIGITS = There is an unrecognized digit in the global title. The valid range of a digit is 0-9.
- INVALID GLOBTITLE NUMBER OF DIGITS = The number of digits in the GLOBTITLE parameter is out of range. Enter 10-11 digits.
- INVALID MSISDN DIGITS = There is an unrecognized digit in the MSISDN parameter. The valid range of a digit is 0-9.
- INVALID MSISDN NUMBER OF DIGITS = The number of digits in the MSISDN parameter is out of range. Enter 10-11 digits.
- NO GLOBAL SM IN OFFICE = There is no global switching module in this office.

NO = The request is not allowed. May also include:
- FEATURE NOT AVAILABLE = The feature associated with the requested functionality must be purchased before attempting to send the particular test query. All GSM MAP test queries require that the GSM MAP feature must be purchased.

OK = Good. The request was accepted.

PF = Printout follows. Followed by a TST:MAPTQ or TST:MAPTQ-FAIL output message.

RL = Retry later. May also include:
- FAILED TO SEND GSM MAP MESSAGE = The GSM MAP test query message could not be sent to the HLR.
- INTERNAL ERROR = Encoding of the GSM MAP test query failed.
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
- TEST IN PROGRESS = Another GSM MAP test query is currently in progress. Wait for that test query transaction to complete before requesting another test.

5. REFERENCES

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Output Message(s):

```
TST:MAPTQ
TST:MAPTQ-FAIL
```

RC/V View(s):

8.15	CCS OFFICE PARAMETERS
8.17	DIRECT SIGNALLING APPLICATION
8.42	CCS TCAP APPLICATION

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TST:MAPTQ-B

Software Release: 5E18(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a global system for mobile communications (GSM) mobile application part (MAP) test query message be sent to the home location register (HLR).

2. FORMAT

```
TST:MAPTQ,MSISDN=a,GSM=b[,NBRPLN=c][,NFORWD=d]...
  ...[,INTTYPE=e][,FORWDREASON=f][,GLOBTITLE=g]...
  ...[,TRANTYPE=h];
```

3. EXPLANATION OF MESSAGE

`a` = Mobile station international ISDN (MSISDN) number consisting of 10-11 digits. Each digit is in the range of 0-9.

`b` = Global switching module number (range of 1-192).

`c` = MSISDN numbering plan. Valid value(s):

`E164`	= ISDN/telephony numbering plan [International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) Recommendation E.164].
`E212`	= Land mobile numbering plan [ITU-TS (formerly CCITT) Recommendation E.212].
`F69`	= Telex numbering plan ITU-TS (formerly CCITT) Recommendation F.69].
`NATIONAL`	= National numbering plan.
`PRIVATE`	= Private numbering plan.
`UNKNOWN`	= Unknown.
`X121`	= Data numbering plan [ITU-TS (formerly CCITT) Recommendation X.121].

`d` = Number of forwardings (range of 1-5).

`e` = Interrogation type. Valid value(s):

`BASICCALL`	= Basic call.
`FORWARDING`	= Forwarded call.

`f` = Forwarding reason. Valid value(s):

`BUSY`	= The mobile subscriber is busy.
`NOREPLY`	= There is no reply from the mobile subscriber.
`NOTREACHABLE`	= The mobile subscriber is not reachable.

`g` = Global title consisting of 10-11 digits. Each digit is in the range of 0-9.

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h = Translation type (range of 0-255).

4. SYSTEM RESPONSE

NG = No good. May also include:
- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- FAILED TO READ RLDS_APP = Failed to read the relation RLDS_APP using the GSM MAP application as the key. Refer to RC/V View 8.17 (DIRECT SIGNALLING APPLICATION).
- GLOBAL SM IS INVALID = The entered global switching module is either invalid or is not provisioned in the office.
- GSM MAP NOT AVAILABLE = The GSM MAP functionality has not been provisioned. Refer to RC/V Views 8.15 (CCS OFFICE PARAMETERS), 8.17, and 8.42 (CCS TCAP APPLICATION).
- INVALID DATA IN GLGTS_ADDR = There is invalid data in the GLGTS_ADDR global parameter. Refer to RC/V View 8.15.
- INVALID GLOBTITLE DIGITS = There is an unrecognized digit in the global title. The valid range of a digit is 0-9.
- INVALID GLOBTITLE NUMBER OF DIGITS = The number of digits in the GLOBTITLE parameter is out of range. Enter 10-11 digits.
- INVALID MSISDN DIGITS = There is an unrecognized digit in the MSISDN parameter. The valid range of a digit is 0-9.
- INVALID MSISDN NUMBER OF DIGITS = The number of digits in the MSISDN parameter is out of range. Enter 10-11 digits.
- NO GLOBAL SM IN OFFICE = There is no global switching module in this office.

NO = The request is not allowed. May also include:
- FEATURE NOT AVAILABLE = The feature associated with the requested functionality must be purchased before attempting to send the particular test query. All GSM MAP test queries require that the GSM MAP feature must be purchased.

OK = Good. The request was accepted.

PF = Printout follows. Followed by a TST:MAPTQ or TST:MAPTQ-FAIL output message.

RL = Retry later. May also include:
- FAILED TO SEND GSM MAP MESSAGE = The GSM MAP test query message could not be sent to the HLR.
- INTERNAL ERROR = Encoding of the GSM MAP test query failed.
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
- TEST IN PROGRESS = Another GSM MAP test query is currently in progress. Wait for that test query transaction to complete before requesting another test.

5. REFERENCES

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Output Message(s):

```
TST:MAPTQ
TST:MAPTQ-FAIL
```

RC/V View(s):

8.15	CCS OFFICE PARAMETERS
8.17	DIRECT SIGNALLING APPLICATION
8.42	CCS TCAP APPLICATION

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TST:MP

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a test of a modem pool (MP).

Format 1 tests one or two modem pool members (MPMs). Format 2 tests an entire modem pool group (MPG) by specifying the multi-line hunt group number of the MPG or a range of MPMs within an MPG. Format 3 tests an entire MPG by specifying the modem pool access directory number (DN) of the MPG (that is, a DN that an analog user would dial to reach an X.25 terminating packet-service through the modem pool).

2. FORMAT

```
[1]    TST:MP,MPM=a-b[,MPMB=a-f][,TYPE=d];

[2]    TST:MP,MPG=a[-b&&c][,TYPE=d];

[3]    TST:MP,DN=e[,TYPE=d];
```

3. EXPLANATION OF MESSAGE

An MPG is a multi-line hunt group (MLHG). An MLHG is identified by both its group number and MLHG listed DN. An MPM is identified by the group number and member number. A modem pool test is run between two MPMs at a time. If the input message specifies a single MPM to be tested, the switch will select another MPM from the same MPG to test the first one against, and the selected member will be idle in-service-manual or in-service-auto (IS MAN/IS AUTO). If there is a member that is in-service-forced (IS FRCD), then that member will not be selected for this type of testing.

Note: To isolate a problem there must be three in-service (IS) idle modem pool members in the group. However, if the test is run with two idle members TST:MP will attempt to find a third idle IS member. If a third idle member is not found the user will be informed that no idle members were found to test.

If two MPMs are specified on the message line in Format 1, they must be members of the same MPG.

If the DN (Format 3) or just the MLHG number (Format 2) of the MPG is given, then all members of the group will be tested. In this case, the switch will select pairs of in-service and idle MPMs, run the test between those two, and report any failures.

If the input message specifies a range of MPMs (Format 2) to be tested, the test is performed on all the valid idle members in the range. If holes in the range exist, then the test would skip to the next available member in the range. If the specified upper boundary in the range is greater than the highest member number, tests would be performed on all valid idle members in the group greater than the lower boundary.

An out-of-service (OOS) MPM can be tested only if the analog side of that MPM is OOS MTCE DSBLD MAN before the test is run. While the MPM is being tested, the status will be IS FRCD UTEST AUTO. The status will be returned to OOS MTCE DSBLD MAN after the test is completed. Only Format 1 will allow the testing of an OOS MPM.

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`a` = MLHG number of the MPG to be tested.

`b` = Member number of the MPM to be tested or lower limit of range of MPMs to be tested.

`c` = Upper limit of range of MPMs to be tested.

`d` = Type of test to be run. Valid value(s):

`ALL`	= Origination and termination test.
`ORIG`	= Origination test.
`TERM`	= Termination test.

`e` = Modem pool access directory number of MPG to be tested.

`f` = Member number of the second MPM to be tested.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied.

`PF` = Printout follows. The request has been accepted and the test will be run. Followed by the TST:MP output message.

`RL` = Retry later. The request cannot be run now because of system load.

5. REFERENCES

Output Message(s):

`TST:MP`

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TST:NCD

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a network call denial (NCD) query be sent to the NCD database to verify its operation.

2. FORMAT

```
TST:NCD=a[,OSPS];
```

3. EXPLANATION OF MESSAGE

`OSPS` = Indicates an operator services position system (OSPS) application.

`a` = Ten-digit billing number to be queried, in the form NPANXXXXXX or RAO[0/1]XXXXXX.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `CNI NOT AVAILABLE` = The test message can not be sent. The common network interface (CNI) is not operational or is in overload. Check CNI status and wait 10 minutes before requesting another test.
- `INVALID INPUT IN FIELD 'a'` = Either an invalid character was input at '`a`', or an incorrect number of digits was input. There must be 10 digits input at '`a`'.

`PF` = Printout follows. The request has been received. Followed by the TST:NCD output message.

`RL` = Retry later. May also include:
- `CNI/DLN PROBLEM` = The test message cannot be sent. The CNI is in overload or no active direct link node (DLN) is available.
- `TEST IN PROGRESS` = A common channel signaling (CCS) test is currently in progress.
- `TOO MANY QUERIES RUNNING` = No NCD query ID's are available.

5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:RATE
```

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Output Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE
```

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TST:NS800

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the service control point (SCP) and the *5ESS®*-2000 switch.

2. FORMAT

```
TST:NS800=a,ANI=b,LATA=c[,OST=d][,CICEI=e][,OPC=f][,PLATFORM=g];
```

3. EXPLANATION OF MESSAGE

`a` = Number to be tested. This number must be a string of ten digits.

`b` = Ten-digit automatic number identification (ANI) of the calling party which must have the format NPANXXXXXX.

`c` = Three digit absolute local access transport area (LATA) number (100-999).

`d` = Originating station type. Valid value(s):

`AIOD`	= Auto identified outward dialing - listed directory number (DN) sent.
`ANIF`	= Automatic number identification (ANI) failure.
`CNLES`	= Coinless, hospital, inmate, and so forth.
`COIN`	= Coin call.
`HOTEL`	= Hotel without room identification.
`ILCNL`	= InterLATA restricted- coinless line, and so forth.
`ILHT`	= InterLATA restricted- hotel line.
`ILRST`	= InterLATA restricted.
`LINE`	= Identified line- no special treatment.
`NLINE`	= Identified line, (coin or noncoin).
`ONI`	= Operator number identification (multiparty).
`TEST`	= Test call.

`e` = CIC expansion indicator (Y or N). Indicates whether the CIC expansion parameter should be sent in the test query. If not specified the default value is taken from the Gltcapic office parameter.

`f` = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. Note: this option is mandatory in a multi-platform office.

`g` = Signaling Platform. Valid value(s):

`0`	= Common Network Interface (CNI) Platform
`1 - 192`	= Global Switching Module (GSM) Number

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Note: this option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- CNI NOT AVAILABLE = The test message cannot be sent. The common network interface (CNI) is not operational or is overloaded. Check CNI status and wait at least 10 minutes before requesting another test.
- FAILED TO SENT TCAP MESSAGE = Unable to format query and sent message out to the network.
- GSM/PROTOCOL MISMATCH = The GSM and the protocol do not match, missing or incorrect data.
- INVALID INPUT IN FIELD = There is either an invalid character in variable 'a', 'b', 'c' or an incorrect number of digits. There must be digits input in variable 'a', 'b', 'c'.
- MUST ENTER OPC = The origination point code must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
- MUST ENTER PLATFORM = The signaling platform must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid, the number of digits entered is incorrect, or the point code was not provisioned in the office.
- OPC IS NOT AVAILABLE = Could not get the point code. There was missing or incorrect data.
- OPC NOT ON PLATFORM = Could not find the point code on the platform entered.
- PLATFORM IS INVALID = The entered signaling platform is either invalid or the platform entered is not provisioned in the office.

PF = Printout follows. The request has been received. Followed by the TST:NS800 output message.

RL = Retry later. Valid value(s):
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
- TEST IN PROGRESS = A common channel signaling (CCS) test is currently in progress.

5. REFERENCES

Output Message(s):

TST:NS800

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Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

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TST:OLNS

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a originating line number screening (OLNS) query be sent to the line information database (LIDB) to verify its operation.

2. FORMAT

```
TST:OLNS=a
```

3. EXPLANATION OF MESSAGE

`a` = 10-digit calling number to be queried in the form `NPANXXXXXX`.

4. SYSTEM RESPONSE

`NG` = No good. Includes one of the following:
- `REASON FOR NG` = Explanation of reason.
- `INVALID CLG NUMBER` = The calling number is invalid. The NANP calling number must be a 10-digit number.
- `CNI NOT AVAILABLE` = The query test cannot be sent to the LIDB database because the common network interface (CNI) is not available.
- `TEST IN PROGRESS` = Another common channel signaling (CCS) test is in progress.
- `INTERNAL ERROR` = There is an internal error with the LIDB query format.

`PF` = Printout follows. The request has been received. The output message TST:OLNS follows.

`RL` = Retry later. Includes one of the following:
- `CNI/DLN PROBLEM` = The test message cannot be sent - CNI is in overload or no active direct link node (DLN) is available.
- `TEST IN PROGRESS` = Another common channel signaling (CCS) test is in progress.
- `TOO MANY QUERIES RUNNING` = No OLNS query IDs are available.

5. REFERENCES

IM/OM References:

None.

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TST:OSPS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the Hotel Billing Information System (HOBIS) or hotel billing information center (HOBIC) printer be tested by printing a text string (THE QUICK BROWN FOX JUMPED OVER THE LAZY DOGS.$#: /-'0123456789,"). The message accepts as input either the external Operator Services Position System (OSPS) equipment ID or the internal integrated services line unit (ISLU) line card ID.

This input message can also be used to test an autoquote establishment modem and printer by sending a text string (same as above), or by sending a series of "ENQ" characters, or by raising the carrier at the autoquote digital subscriber line (DSL) modem.

2. FORMAT

```
TST:OSPS,{HOBIS=a-b|HOBICR=c-d|HOBICV=c-e|LCEN=f-g-h-i
|AQEST=j[,AQ=k-l],m};
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Hotel Billing Information System (HOBIS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Relative digital subscriber line (DSL) number assigned to a HOBIS data link DSL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Hotel billing information center (HOBIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Relative DSL number assigned to a HOBICR (HOBIC record TTY) data link DSL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Relative DSL number assigned to a HOBICV (HOBIC voice-quote TTY) data link DSL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i` = Line card ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`j` = Directory (telephone) number of AQEST.

`k` = AQ group ID (1).

`l` = AQ relative DSL number (0-15).

`m` = Test type for AQEST. Valid value(s):

- `CARRIER` = Raise the carrier from local modem (connected at the Autoquote DSL) for 90 seconds on the hotel-leased line.
- `ENQACK` = Send a series of ENQ characters to AQEST for 5 seconds at 500-millisecond intervals.
- `PRINT` = Print the text string on AQEST printer.

4. SYSTEM RESPONSE

`IP` = In progress. A message to the HOBIS/HOBIC service process has been sent.

`NG` = No good. May also include:

- `LCEN UNKN` = The given HOBIS/HOBIC LCEN is invalid.

`RL` = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

`TST:OSPS`

Other Manual(s):
235-900-500 *OSPS Automated Charge Quotation Service*

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TST:PATH-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Format 1 is for requesting the automatic digital 64Kbps pseudo random bit error rate (BER) loopback test call on inter-working gateway (IWG) paths. The users enter the external identifiers required to adequately identify the SM and IWG minimumly to be used for testing. The path equipment number (PEN) are optional identifiers for requesting specific test path. In addition, the user must specify the IWG as the loopback (LPBK) termination point.

Format 2 is for requesting end to end test calls (also referred to as the 108 or BICC test call) of ATM packet network switched virtual connections (SVC) connections. The users are required to specify the BICC identifier and out pulse digits (OPDN). The LPBK termination is default to test line (TL) for BICC test call.

This test requires the use of a integrated services test function (ISTF) or global digital services function (GDSF) as the digital test source. One test equipment transmit/receive channel (maximum of 3 per ISTF and 16 per GDSF) must be allocated for each path to be tested. The data rate of the digital bit stream may be specified using the RATE parameter.

The test activates the specified (or default) LPBK termination, establishes a digital path between the test equipment channel and the associated IWG and SVC path, and transmits a pseudo random bit stream to be returned at the location of LPBK termination. The incoming bit stream (returning from the LPBK) is checked by the test equipment to derive the bit error rate (BER) and the errored blocks (ERBLK) for output. The success or failure of testing is based on the acceptable bit error rate (ABER), which is default to 6 - the failing BER of 1 or more bits in error, for every 1,000,000 bits transmitted.

Any TST:PATH request may be stopped using the STP:TST-PATH input message.

2. FORMAT

```
[1]    TST:PATH:IWG=a-b[,PEN=c[-d[-e]]][,TERM=f][,TYPE=g]. . .
       . . .[,DUR=h][,RATE=i][,RPT=j][,BLKSZ=k][,ROP];
       ____________________________________________________

[2]    TST:PATH:{BG=n|BGMN=n-o},OPDN=m. . .
       . . .[,IWG=a-b[,PEN=c[-d[-e]]][,OC3=p][,TYPE=g][,DUR=h]. . .
       . . .[,RATE=i][,RPT=j][,BLKSZ=k][,ROP];
       ____________________________________________________
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ROP` = The ROP parameter frees the invoking terminal (such as, TLWS, MCC) for subsequent work while test results are logged only on the ROP device. This is useful when performing long duration tests in modes that produce multiple output messages.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

b = Inter-working gateway (IWG) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative link number (0-4).

Each relative link (rlink) is a coaxial cable connected to a synchronous transport signal number 1 (STS-1e) card in the IWG. Each rlink is equivalent to a host facility on the IWG (also equivalent to IWGFAC#-1).

d = Relative tributary number (0-27).

Each rlink has 28 relative tributary numbers (rtrib). The rtrib is logical entity on the rlink, which is equivalent to a DS1 in the DNUS. Each rtrib is a physical device chip inside of IWG which capable of handling 24 channels.

e = Digital signal 0 (DS0) value (0-23).

DS0 is logical channels inside the rtrib. The total logical DS0 channels (total rtrib * total DS0) on a rlink is equivalent to the total time slots (TS) on 5E.

f = Termination.

For digital LPBK testing, the termination is the point at which the test data is returned to the test equipment for evaluation. A LPBK termination may be provided using the built in capabilities of transmission equipment.

For Format 1 Only:

IWG = Inter-working gateway. The termination loopback is provided within the IWG connected to the SM.

DEFAULT: IWG

For Format 2 Only:

TL = Test Line. The termination loopback is provided at the test line on the terminating switch.

DEFAULT: TL

g = The type of test to be executed. Valid value(s):

BER = Non-inverted loopback. All bits are returned in the same order as sent.

BERINV = Inverted loopback. All bits are returned as a mirror image of the order sent.

For Format 1 : only BER is allowed. DEFAULT: BER

h = Duration (DUR) of test (1-3600, default 20).

The duration is the length of time (in seconds) that the test source sends test data. In general,

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the test duration does not include the setup time, or idling time associated with any test request. The elapsed time taken for the test request to complete can be significantly greater than the actual test duration.

`i` = Data rate.

This is rate of the digital bit stream to be sourced by the ISTF|GDSF during LPBK testing. Valid value(s):

`64CLR` = 64000 bits/sec clear channel (that is, zero-octet allowed). Default.
`64RES` = 64000 bits/sec restricted (that is, zero-octet suppressed).
`56KPS` = 56000 bits/sec.

`j` = Number of times to repeat the test (default 1).

The current valid repeat test is once. The repeat capability will be implemented in later generic.

`k` = Block-size (BLKSZ) (1-64000).

For LPBK testing, the digital-bit-stream is partitioned into segments called blocks, specified using the BLKSZ parameter. The BLKSZ is the number of bits in each block. The BLKSZ is used by the ISTF|GDSF to calculate the total ERBLK for output. The ERBLK result characterizes the accumulation of bit-errors. Varying the BLKSZ allows the distribution of errors over time to be better understood.

For Format 1 Only: If BLKSZ is not specified, the default is chosen based on the data rate used. Valid value(s):

`56000` = For RATE=56KPS.
`64000` = For RATE=64RES or RATE=64CLR.

For Format 2 Only: LPBK testing across ATM network, the BLKSZ is the block of multiple ATM cells.

If BLKSZ is not specified, the default is 384 (48 bytes per ATM cell * 8 cells per block).

`m` = Digits to be outpulsed for the specified test.

`n` = BICC group number (7000-7999).

`o` = BICC group member, normalized CIC (0-65535).

`p` = Optical carrier 3 (OC3) link (0-1).

4. SYSTEM RESPONSE

`PF` = Printout follows. A unique request number is given to each test path requested and is output as "PF - REQNO=x".

If the test request is incomplete or invalid, a single TST:PATH output message is generated

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indicating the failure.

If the test request is completed, the test procedure attempts to seize control of all resources required for testing.

The number of TST:PATH output messages generated varies in accordance with the number of tests. In general, an output message is generated for each path tested; however, if the same failure occurs on all path tested, one output message may be output for all path. Primarily, the test duration determines the elapsed time between output messages for multi-section tests. When a TST:PATH request is complete, an end-of-transmission (EOT) flag appears on output.

RL = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:TST-PATH
OP:BICC
OP:JOBSTATUS
```

Output Message(s):

```
TST:PATH
OP:BICC
OP:JOBSTATUS
```

Input Appendix(es):

```
APP:RANGES
```

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TST:PATH-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Format 1 is for requesting the automatic digital 64Kbps pseudo random bit error rate (BER) loopback test call on inter-working gateway (IWG) paths. The users enter the external identifiers required to adequately identify the SM and IWG minimumly to be used for testing. The path equipment number (PEN) are optional identifiers for requesting specific test path. In addition, the user must specify the IWG as the loopback (LPBK) termination point.

Format 2 is for requesting end to end test calls (also referred to as the 108 or BICC test call) of ATM packet network switched virtual connections (SVC) connections. The users are required to specify the BICC identifier and out pulse digits (OPDN). The LPBK termination is default to test line (TL) for BICC test call.

This test requires the use of a integrated services test function (ISTF) or global digital services function (GDSF) as the digital test source. One test equipment transmit/receive channel (maximum of 3 per ISTF and 16 per GDSF) must be allocated for each path to be tested. The data rate of the digital bit stream may be specified using the RATE parameter.

The test activates the specified (or default) LPBK termination, establishes a digital path between the test equipment channel and the associated IWG and SVC path, and transmits a pseudo random bit stream to be returned at the location of LPBK termination. The incoming bit stream (returning from the LPBK) is checked by the test equipment to derive the bit error rate (BER) and the errored blocks (ERBLK) for output. The success or failure of testing is based on the acceptable bit error rate (ABER), which is default to 6 - the failing BER of 1 or more bits in error, for every 1,000,000 bits transmitted.

Any TST:PATH request may be stopped using the STP:TST-PATH input message.

2. FORMAT

```
[1]    TST:PATH:IWG=a-b[,PEN=c[-d[-e]]][,TERM=f][,TYPE=g]. . .
       . . .[,DUR=h][,RATE=i][,RPT=j][,BLKSZ=k][,ROP];

[2]    TST:PATH:{BG=n|BGMN=n-o},OPDN=m. . .
       . . .[,IWG=a-b[,PEN=c[-d[-e]]][,OC3=p][,TYPE=g][,DUR=h]. . .
       . . .[,RATE=i][,RPT=j][,BLKSZ=k][,ROP];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ROP` = The ROP parameter frees the invoking terminal (such as, TLWS, MCC) for subsequent work while test results are logged only on the ROP device. This is useful when performing long duration tests in modes that produce multiple output messages.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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b = Inter-working gateway (IWG) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative link number (0-4).

Each relative link (rlink) is a coaxial cable connected to a synchronous transport signal number 1 (STS-1e) card in the IWG. Each rlink is equivalent to an Host Facility on the IWG (also equivalent to IWGFAC#-1).

d = Relative tributary number (0-27).

Each rlink has 28 relative tributary numbers (rtrib). The rtrib is logical entity on the rlink, which is equivalent to a DS1 in the DNUS. Each rtrib is a physical device chip inside of IWG which capable of handling 24 channels.

e = Digital signal 0 (DS0) value (0-23).

DS0 is logical channels inside the rtrib. The total logical DS0 channels (total rtrib * total DS0) on a rlink is equivalent to the total time slots (TS) on 5E.

f = Termination.

For digital LPBK testing, the termination is the point at which the test data is returned to the test equipment for evaluation. A LPBK termination may be provided using the built in capabilities of transmission equipment.

For Format 1 Only:

`IWG` = Inter-working gateway. The termination loopback is provided within the IWG connected to the SM.

DEFAULT: IWG

For Format 2 Only:

`TL` = Test Line. The termination loopback is provided at the test line on the terminating switch.

DEFAULT: TL

g = The type of test to be executed. Valid value(s):

`BER` = Non-inverted loopback. All bits are returned in the same order as sent.

`BERINV` = Inverted loopback. All bits are returned as a mirror image of the order sent.

For Format 1 : only BER is allowed. DEFAULT: BER

h = Duration (DUR) of test (1-3600, default 20).

The duration is the length of time (in seconds) that the test source sends test data. In general, the test duration does not include the setup time, or idling time associated with any test request. The elapsed time taken for the test request to complete can be significantly greater than the actual test duration.

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`i` = Data rate.

This is rate of the digital bit stream to be sourced by the ISTF|GDSF during LPBK testing. Valid value(s):

`64CLR` = 64000 bits/sec clear channel (that is, zero-octet allowed). Default.
`64RES` = 64000 bits/sec restricted (that is, zero-octet suppressed).
`56KPS` = 56000 bits/sec.

`j` = Number of times to repeat the test (default 1).

The current valid repeat test is once. The repeat capability will be implemented in later generic.

`k` = Block-size (BLKSZ) (1-64000).

For LPBK testing, the digital-bit-stream is partitioned into segments called blocks, specified using the BLKSZ parameter. The BLKSZ is the number of bits in each block. The BLKSZ is used by the ISTF|GDSF to calculate the total ERBLK for output. The ERBLK result characterizes the accumulation of bit-errors. Varying the BLKSZ allows the distribution of errors over time to be better understood.

For Format 1 Only: If BLKSZ is not specified, the default is chosen based on the data rate used. Valid value(s):

`56000` = For RATE=56KPS.
`64000` = For RATE=64RES or RATE=64CLR.

For Format 2 Only: LPBK testing across ATM network, the BLKSZ is the block of multiple ATM cells.

If BLKSZ is not specified, the default is 384 (48 bytes per ATM cell * 8 cells per block).

`m` = Digits to be outpulsed for the specified test.

`n` = BICC group number (7000-7999).

`o` = BICC group member, normalized CIC (0-65535).

`p` = Optical carrier 3 (OC3) link (0-1).

4. SYSTEM RESPONSE

`PF` = Printout follows. A unique request number is given to each test path requested and is output as "PF - REQNO=x".

If the test request is incomplete or invalid, a single TST:PATH output message is generated indicating the failure.

If the test request is completed, the test procedure attempts to seize control of all resources

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required for testing.

The number of TST:PATH output messages generated varies in accordance with the number of tests. In general, an output message is generated for each path tested; however, if the same failure occurs on all path tested, one output message may be output for all path. Primarily, the test duration determines the elapsed time between output messages for multi-section tests. When a TST:PATH request is complete, an end-of-transmission (EOT) flag appears on output.

`RL` = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:TST-PATH
OP:BICC
OP:JOBSTATUS
```

Output Message(s):

```
TST:PATH
OP:BICC
OP:JOBSTATUS
```

Input Appendix(es):

```
APP:RANGES
```

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TST:PATH-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

The TST:PATH input message is used by office personnel to perform test calls on voice, data, or control paths involving system components. TST:PATH test calls are not associated with a specific trunk or line. There are multiple formats of the TST:PATH input messages that can be performed on an optical interface unit (OIU) serving both ATM and IP connections, as well as PSU PH's. These input messages provide functionality for supporting both loopback and end-to-end type testing. Any TST:PATH request may be stopped using the STP:TST-PATH input message.

Format 1 is for requesting the ATM packet pipe trunk test. In this format, the trunk can be identified by trunk group number and trunk member number or by SM number, packet switch unit (PSU) number, ATM link number and virtual connection identifier (VCID) number. Also, this command provides two mechanisms to run repeating test on ATM packet pipe trunk. One is "RPT", another is the parameter of "DUR".

This test is created for PHA2 which allows ATM permanent virtual circuits (PVCs) to be terminated on digital cellular switch (DCS) to transport cell site to PSU bearer traffic over ATM. Those ATMPPs are represented as trunk group and trunk members similar to frame relay protocol handler (FRPH) PPs.

This test provides an ability to detect the configuration for both the cell site and DCS. For the duplex channel mode, the STBY channel will be marked with a "*".

This test can be run on both the IS ATMPP trunk and OOS ATMPP trunks. (Note: When ATMPP trunk is in OOS state, only "OOS-MTCE-DSBLD and OOS-CADN-DSBLD" are allowed to run test). When execute an ATM loop back test while ATMPP trunk is OOS, this test is used to allow verification of PVC provisioning in the ATM network prior to making the ATMPP trunk operational.

Format 2 is for requesting the ATM OA&M loop back test on signaling ATM adaptation layer-high speed link (SAAL HSL). The SAAL HSL is also known as PSU PIPE, and appears on RC/V View 22.25 (PACKET SWITCH UNIT PIPE). It carries the ATM traffic containing SS7 signaling for all the ISUP/BICC trunks in the whole office. The SAAL HSL connects two CCS nodes, and can be identified by PSU equipment number (PSUEN).

This test provides a mechanism to detect the availability of the ATM layer functions of HSL. The user can initiate a test from one CCS node, for example, 5ESS. This CCS node sends out OA&M cell to the far end CCS node and gets loop back cell back, the result will be looked as successful completion.

This test can only be run on IS SAAL-HSL, and access is denied when the user attempts to run the OA&M loop-back on the OOS SAAL HSL.

The DELAY test call can be used to confirm that a loopback exists between two ends, measure the power level and noise level of the OIU-IP path under test, and determine whether the loopback delay associated with the OIU-IP path exceeds the specified delay threshold timeout (TMO) value or not.

Format 3 is used for requesting the DELAY loop-back test to a loopback point at the near-end inter-working gateway unit (for example, packet FPGA on OIU-IP unit). The near-end loop-back involves no signaling outside of the office. The TST:PATH input message supports the addition of OIUPG and PCTTS input parameters.

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This test will exercise the majority of the OIU-IP hardware functionality, including (outgoing) the conversion of a TDM channel into IP packets and (incoming) the conversion of IP packets into a TDM channel.

Format 4 is used for requesting a DELAY test call over an OIU-IP bearer network path to a far end office. For end to end loop testing, signaling (for example, BICC, SIP, and so forth) is used to control the test calls as it does on the normal OIU-IP calls.

Format 5 is used for requesting an outgoing test call over an OIU-IP bearer network using the 105 voice quality test type. The MEAS options allows office personnel to enter the specific 105 measurement to run. If only a packet group (PKTG) is specified, the system will select the appropriate call resources associated with that group. Selecting the PKTGMN keyword gives office personnel the ability to select a specific call identification code (CIC) within the packet group for BICC signaling.

If DELAY or 105 test calls are requested over an OIU-IP bearer network path supported with SIP signaling, only the PKTG keyword is supported, and use of the PKTGMN keyword is denied, as there are no member CICs for SIP signaling system.

Format 6 is used for requesting an SCTP (Session Control Transport Protocol) heartbeat (SCTPHB) test to evaluate the SCTP association path.

This test validates the integrity of SCTP association path. The user can request to test one specific association or the whole association set (by input ASSOCSET or PKTG). The input message also provides testing of an active path (default), a specific path (DIP) or all paths (ALL) of the association(s). The serving SIP PH performs the role of the test equipment and interfaces with the SCTP layer manager to execute the requested test.

2. FORMAT

```
[1]    TST:PATH:{ATMENH|ATMLBK}, . . .
       . . . ATMPP=a-b-c[-d]{,TG=e|TKGMN=e-f[&&g]}. . .
       . . .[DUR=h][,CAMP=i][,RPT=j][,ROP];
       ____________________________________________________________

[2]    TST:PATH:ATMLBK,PSUEN=a-b-k-l-m[,CAMP=i][,RPT=j]. . .
       . . .[,ROP];
       ____________________________________________________________

[3]    TST:PATH:DELAY[,TMO=n],OIUPG=a-q-r,PCTTS=t-u[,RPT=j] . . .
       . . .[,ROP];
       ____________________________________________________________

[4]    TST:PATH:DELAY[,TMO=n],{PKTG=o|PKTGMN=o-p},. . .
       . . .[OIU=a-q|OIUPG=a-q-r],OPDN=s[,RPT=j][,ROP];
       ____________________________________________________________

[5]    TST:PATH:OG105[,MEAS=v],{PKTG=o|PKTGMN=o-p},. . .
       . . .[OIU=a-q|OIUPG=a-q-r],OPDN=s[,RPT=j][,ROP];
       ____________________________________________________________

[6]    TST:PATH:SCTPHB,{ASSOCSET=w|PKTG=o|ASSOC=x} . . .
       . . .[,ALL|DIP=y][,RPT=j][,ROP];
       ____________________________________________________________
```

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3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`ATMENH` = ATMPP enhanced loop-back test. Used to request the exact configuration of cell sites corresponding to the DCS side, which are represented as trunk group and trunk member information.

`ATMLBK` = Standard ATMPP loopback request.

`ROP` = The ROP parameter frees the invoking terminal (such as, TLWS, MCC) for subsequent work while test results are logged only on the ROP device. This is useful when performing long duration tests in modes that produce multiple output messages.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switch unit (PSU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = ATM link unit number (1-10).

`d` = VCID number (0-1023) or ALL. When ALL is specified, then all of the VCIDs on the link will be tested.

`e` = Trunk group (TG) number.

`f` = Trunk group member (TKGMN) number or lower limit of range of trunk group member numbers.

`g` = Upper limit of range of trunk group member numbers.

`h` = The duration or length of time the test source sends test data. The range of the duration is 6-3600, default value is 5. The test duration does not include the setup or idling time associated with the test. The elapsed time for the test request to complete can be significantly greater than the actual test duration.

`i` = Camp-on (CAMP) time (10-3600). Test camps-on the requested test for the time specified (in seconds), wait for the required resources to become available. Once the resources become available the test proceeds. If the resources do not become available in the specified time, the test is aborted.

`j` = Number of times to repeat the test. For Format 1, the range is from 1 to 126. For all other formats, the range is from 1 to 32. The default is 1. For SCTPHB test, it is only supported when ASSOC is identified. It is not applicable to the ASSOCSET and PKTG parameters.

`k` = PSU shelf number (0-4).

`l` = PSU channel number (0-15).

`m` = PSU channel member number (0-127).

`n` = The DELAY test timeout threshold in milliseconds. The accuracy of the measurement in the

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GDSF is only to within about 10 milliseconds, which is sufficient to measure the impact of the end-to-end network delay on the perceived quality of a voice call. The DELAY test will compare the round-trip transmission delay against this value to determine the results of the test. If the round-trip delay is equal or less than the specified delay timeout, the result will indicate the delay threshold was not exceeded.

o = Packet group (PKTG) number over which to set up the test call (7000-7999).

p = Packet group member number (PKTGMN). Only valid for BICC packet groups, and is the normalized call identification code (CIC) to use for the test call (0-65535).

q = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Optical interface unit protection group (OIUPG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Digits to be outpulsed for the specified test. This represents the test lines DN in the far-end office to be outpulsed by the near-end office during the establishment of the loop-back test between the far and near-end offices. The digits outpulsed should be the digits necessary to connect to the appropriate incoming test line in the far-end office for the outgoing test type specified. This represents the exact digit sequence that will be sent to the far-end office, without any routing or steering digits being added.

t = Peripheral control and timing (PCT) link number, relative to the OIU (0-2).

u = PCT time slot (PCTTS) number (0-767).

v = The type of 105 test measurement to perform on the path under test. It represents the measurements for a two-way balance, loss, and noise 105 transmission test. This option allows the user to specify the measurement type to perform on the path under test between the far-end to near-end and near-end to far-end offices. Default is a standard 105 test, including L, N, NT, and RN test. Valid type(s):

Type	Measurement	Optimum Level	Filter	Remarks
ALL	ALL test	--	--	All 105 test, including ERL, L, L4, L10, L28, N, NT, RN, SHI, and SRL
ERL	Echo return loss	Band-limited noise	--	Both ends
GS	Gain slope	--	--	GS test, including L4, L10, and L28
L	Level	0dBm0	1004Hz	Both ends
L10	Level	-16dBm0	1004Hz	Both ends
L28	Level	-16dBm0	2804Hz	Both ends
L4	Level	-16dBm0	404Hz	Both ends
N	Noise	--	C-message	Far end
NT	Noise with tone	--	1004 Hz notch	Both ends
RL	Return loss	--	--	RL test, including ERL, SRL, and SHI
RN	Noise	--	C-message	Near end
SHI	Singing return loss (high frequency)	Band-limited noise	--	Both ends
SRL	Singing return loss (low frequency)	Band-limited noise	--	Both ends

w = SCTP association set name. It is a request to test the whole association set which could have up to 64 associations. Since one association set corresponds to one packet group, ASSOCSET could be found using PKTG on RC/V View 5.71 (PACKET GROUP

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DEFINITION).

x = SCTP association number (1-1023). It is a request to run a test on a single association. Refer to RC/V View 33.23 (ASSOCIATION SET) to find the associations under the specified set. Refer to RC/V View 33.22 (SCTP ASSOCIATION) to find the association information.

y = Destination internet protocol address, in the form xxx-xxx-xxx-xxx. It is a request to the SCTP HB test on the specific path in one association. RC/V View 33.22 (SCTP ASSOCIATION) identifies DIP 1 and DIP 2 (DEST IP ADDR 1 and DEST IP ADDR 2) values (there are two DIPs associated with one association). Designating ALL causes the heart beat test to be executed for all paths of the association(s).

When it is input with ASSOCSET or PKTG parameter, the SCTP association path whose DIP is matched will be tested, and request will be aborted for mismatched ones.

4. SYSTEM RESPONSE

PF = Printout follows. A unique request number is given to each test path requested and is output as "PF – REQNO=x".

If the test request is incomplete or invalid, a single TST:PATH output message is generated indicating the failure.

If the test request is completed, the test procedure attempts to seize control of all resources required for testing.

The number of TST:PATH output messages generated varies in accordance with the number of tests. In general, an output message is generated for each path tested; however, if the same failure occurs on all path tested, one output message may be output for all path. Primarily, the test duration determines the elapsed time between output messages for multi-section tests. When a TST:PATH request is complete, an end-of-test (EOT) flag appears on output.

RL = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:TST-PATH
TST:TRK
OP:BICC
OP:JOBSTATUS
```

Output Message(s):

```
TST:PATH
OP:BICC
OP:JOBSTATUS
```

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Input Appendix(es):

```
APP:RANGES
```

RC/V View(s):

5.71	PACKET GROUP DEFINITION
22.25	PACKET SWITCH UNIT PIPE
33.22	SCTP ASSOCIATION
33.23	ASSOCIATION SET

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TST:PHPATH-A

Software Release: 5E18(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a test of the communication between a source protocol handler (PH)/packet interface (PI) and destination PH/PI.

This command generates a test packet(s) that is sent from the source PH/PI to the destination PH/PI. When the source and destination processor are in the same office the test will generate both a high and low priority packet to test the two different possible types of communication. When the source and destination are in different offices or subnetworks only a high test packet will be generated.

When the source and destination community address are different the test packet(s) will be routed over the appropriate asynchronous transfer mode (ATM) connection.

The STBY option can be used to report all of the above information from the PHA2 with the standby channel. By default the above information is only reported from the PHA2 with the active channel.

2. FORMAT

```
TST:PHPATH,PSUCA=a[,CHGRP=b][,FARSN=c][,FARCA=d][,FARCHGRP=e][,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Verify the PH/PI to PH communication using the standby packet bus.

`a` = Near end packet switching unit (PSU) community address (a non-zero number) of the PSU.

`b` = Near end PSU channel group.

`c` = Far subnetwork ID.

`d` = Far end PSU community address (a non-zero number) of the PSU.

`e` = Far end PSU channel group.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more TST:PHPATH output message.

`NG` = No good. May also include:

- `UNIT UNEQUIPPED` = The request has been denied. The message is valid but no PSUs within the scope of the input message were detected in the current equipage.
- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- `STBY NOT ALLOWED` = The request has been denied. The message is valid but the near end PSU does not have a STBY PSUCOM.
- `FARSN MUST NOT EQUAL OFFICE SN` = The request has been denied. The message is

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valid but the far subnetwork (SN) entered is the same as the near SN.

- FARCA MUST NOT EQUAL NEARCA WHEN CHGRP AND FARCHGRP ARE NOT ENTERED = The request has been denied. The message is valid but the near PSU community address (CA) and far PSU CA match with no channel group specified.
- STBY NOT ALLOWED WHEN FARCA IS NOT EQUAL TO PSUCA = The request has been denied. The message is valid but the standby option can't be used when the near PSU CA and far PSU CA don't match.

RL = Retry later. May also include:

- SM UNAVAILABLE The request has been denied. The message is valid but the SM is not available.

5. REFERENCES

Output Message(s):

TST:PHPATH

Input Appendix(es):

APP:RANGES

TST:PHPATH-B

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a test of the communication between a source protocol handler (PH)/packet interface (PI) and destination PH/PI.

This input message generates a test packet(s) that is sent from the source PH/PI to the destination PH/PI. When the source and destination processor are in the same office the test will generate both a high and low priority packet to test the two different possible types of communication. When the source and destination are in different offices or subnetworks only a high test packet will be generated.

When the source and destination community address are different the test packet(s) will be routed over the appropriate asynchronous transfer mode (ATM) or internet protocol (IP) connection.

This input message is supported on the following types of hardware: PH4, PH22 (FRPH), PHA2, PHE2 (PHE2E), PHE3, PHE4, PHV4, PHV5 and PHV6.

2. FORMAT

```
TST:PHPATH,PSUCA=a[,CHGRP=b][,FARSN=c][,FARCA=d][,FARCHGRP=e][,PCKTS=f]
[,DUR=g][,MSGSIZE=h][,AVGDELAY=i][,PERDELAY=j][,PERCTG=k][,STBY];
```

3. EXPLANATION OF MESSAGE

`STBY` = Verify the PH/PI to PH communication using the standby packet bus.

`a` = Near end packet switching unit (PSU) community address (a non-zero number) of the PSU.

`b` = Near end PSU channel group.

`c` = Far subnetwork ID.

`d` = Far end PSU community address (a non-zero number) of the PSU.

`e` = Far end PSU channel group.

`f` = Number of test packets to be sent to the far end (1 - 50).

`g` = Test duration in seconds (1 - 60).

`h` = Size of the payload in each packet (20 - 36 bytes).

`i` = Average delay of the packets in microseconds (500 - 200000).

`j` = Percentile delay of the percentage of packets in microseconds (500 - 200000).

`k` = Percentage of packets that will be received within the percentile delay range (1 - 100).

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4. SYSTEM RESPONSE

PF = Printout follows. Followed by one or more TST:PHPATH output message.

NG = No good. May also include:

- DATABASE ERROR = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- FARCA MUST NOT EQUAL NEARCA WHEN CHGRP AND FARCHGRP ARE NOT ENTERED = The request has been denied. The message is valid but the near PSU community address (CA) and far PSU CA match with no channel group specified.
- FARSN MUST NOT EQUAL OFFICE SN = The request has been denied. The message is valid but the far subnetwork (SN) entered is the same as the near SN.
- STBY NOT ALLOWED = The request has been denied. The message is valid but the near end PSU does not have a STBY PSUCOM.
- STBY NOT ALLOWED WHEN FARCA IS NOT EQUAL TO PSUCA = The request has been denied. The message is valid but the standby option can't be used when the near PSU CA and far PSU CA don't match.
- UNIT UNEQUIPPED = The request has been denied. The message is valid but no PSUs within the scope of the input message were detected in the current equipage.

RL = Retry later. May also include:

- SM UNAVAILABLE The request has been denied. The message is valid but the SM is not available.

5. REFERENCES

Output Message(s):

TST:PHPATH

Input Appendix(es):

APP:RANGES

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TST:PSLNK-A

Software Release: 5E15 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests an asynchronous transfer mode (ATM) level loop back test between two end points of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6). Each end point is uniquely addressed with a non-zero PSU community address (CA) within that network.

A PSU link is uniquely identified by the CAs of two PSUs within the point-to-point network, that this PSU link connects. Similarly, a virtual path (VPATH) is uniquely identified by the CAs of two PSUs within the point-to-multipoint ATM network, that this VPATH connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the PSU link's or VPATH's far end PSU CA can not be specified by the PSU equipment number and must always be entered as PSU CA. For gateway PHAs the far subnetwork number is needed to do the loopback test. The test cannot be started from a gateway PHA.

There are two options of the loop back test. The default loop back test is the standard test as described in the GR-1248 ATM specification. This test is useful for checking provisioning between ATM end points through an ATM center-stage switch. This test verifies that the far end point received the loop back cell, and returned the cell within proper time interval. This test will not detect the case where the far end point that returned the ATM loop back cell was not the end point specified by the input command. This could happen if there is a misprovisioned ATM center-stage switch that connects to an ATM end point that can return the loop back cell.

The second option is the "Enhanced" test, which is invoked using the "ENH" parameter. The enhancement option is a non-standard, Lucent-only loop back test that explicitly verifies the virtual path between Lucent PHAs. This test uses the information available at the far end point to overwrite part of the ATM loop back cell "tag" field before sending back the cell. The originating end point validates the received "tag", and outputs the far end point's PSU CA as well as the VPI on which the loop back cell was received. This test can only be properly used between Lucent PSU CA end points.

2. FORMAT

```
[1]    TST:PSLNK=a-b[,ENH];

[2]    TST:PSLNK,PSUCA=a,FARCA=b[,ENH];

[3]    TST:PSLNK,PSU=c-0,FARCA=b[,ENH];

[4]    TST:PSLNK,VPATH=a-b[,FARSN=d][,ENH];

[5]    TST:PSLNK,VPATH,PSUCA=a,FARCA=b[,FARSN=d][,ENH];

[6]    TST:PSLNK,VPATH,PSU=c-0,FARCA=b[,FARSN=d][,ENH];
```

3. EXPLANATION OF MESSAGE

`a` = Near end PSU community address (a non-zero number) of the PSU link or virtual path.

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`b` = Far end PSU community address (a non-zero number) of a PSU link or of a virtual path.

`c` = Switching module (SM) number.

`d` = Far subnetwork number

`ENH` = Enhancement option for more rigorous verification of the "tag" field in the ATM loop back cell. With this option, the far end point and the virtual path taken by the responding loop back cell are explicitly verified. See above for more complete explanation. This test is only to be used between PSU CA end points.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by the TST:PSLNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

Output Message(s):

`TST:PSLNK`

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TST:PSLNK-B

Software Release: 5E16(1) - 5E16(2)
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests an asynchronous transfer mode (ATM) level loop back test between two end points of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6). Each end point is uniquely addressed with a non-zero PSU community address (CA) within that network.

A PSU link is uniquely identified by the CAs of two PSUs within the point-to-point network, that this PSU link connects. Similarly, a virtual path (VPATH) is uniquely identified by the CAs of two PSUs within the point-to-multipoint ATM network, that this VPATH connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the PSU link's or VPATH's far end PSU CA can not be specified by the PSU equipment number and must always be entered as PSU CA. For gateway PHAs the far subnetwork number is needed to do the loopback test. The test cannot be started from a gateway PHA.

There are two options of the loop back test. The default loop back test is the standard test as described in the GR-1248 ATM specification. This test is useful for checking provisioning between ATM end points through an ATM center-stage switch. This test verifies that the far end point received the loop back cell, and returned the cell within proper time interval. This test will not detect the case where the far end point that returned the ATM loop back cell was not the end point specified by the input command. This could happen if there is a misprovisioned ATM center-stage switch that connects to an ATM end point that can return the loop back cell.

The second option is the "Enhanced" test, which is invoked using the "ENH" parameter. The enhancement option is a non-standard, Lucent-only loop back test that explicitly verifies the virtual path between Lucent PHAs. This test uses the information available at the far end point to overwrite part of the ATM loop back cell "tag" field before sending back the cell. The originating end point validates the received "tag", and outputs the far end point's PSU CA as well as the VPI on which the loop back cell was received. This test can only be properly used between Lucent PSU CA end points.

2. FORMAT

```
[1]    TST:PSLNK=a-b[,ENH];

[2]    TST:PSLNK,PSUCA=a,FARCA=b[,ENH];

[3]    TST:PSLNK,PSU=c-d,FARCA=b[,ENH];

[4]    TST:PSLNK,VPATH=a-b[,FARSN=e][,ENH];

[5]    TST:PSLNK,VPATH,PSUCA=a,FARCA=b[,FARSN=e][,ENH];

[6]    TST:PSLNK,VPATH,PSU=c-d,FARCA=b[,FARSN=e][,ENH];
```

3. EXPLANATION OF MESSAGE

`a` = Near end PSU community address (a non-zero number) of the PSU link or virtual path.

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`b` = Far end PSU community address (a non-zero number) of a PSU link or of a virtual path.

`c` = Switching module (SM) number.

`d` = PSU number

`e` = Far subnetwork number

`ENH` = Enhancement option for more rigorous verification of the "tag" field in the ATM loop back cell. With this option, the far end point and the virtual path taken by the responding loop back cell are explicitly verified. See above for more complete explanation. This test is only to be used between PSU CA end points.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by the TST:PSLNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

Output Message(s):

`TST:PSLNK`

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TST:PSLNK-C

Software Release: 5E17(1) only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests an asynchronous transfer mode (ATM) level loop back test between two endpoints of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6). Each endpoint is uniquely addressed with a non-zero PSU community address (CA) within that network.

A PSU link is uniquely identified by the CAs of two PSUs within the point-to-point network, that this PSU link connects. Similarly, a virtual path (VPATH) is uniquely identified by the CAs of two PSUs within the point-to-multipoint ATM network, that this VPATH connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the PSU link's or VPATH's far end PSU CA can not be specified by the PSU equipment number and must always be entered as PSU CA. When requesting an inter-network loop back test, the far subnetwork number is needed. The test cannot be started from a gateway PHA.

There are two options of the loop back test. The default loop back test is the standard test as described in the GR-1248 ATM specification. This test is useful for checking provisioning between ATM endpoints through an ATM center-stage switch. This test verifies that the far endpoint received the loop back cell, and returned the cell within the proper time interval. This test will not detect the case where the far endpoint that returned the ATM loop back cell was not the endpoint specified by the input message. This could happen if there is a misprovisioned ATM center-stage switch that connects to an ATM end point that can return the loop back cell.

The second option is the "enhanced" test, which is invoked using the "ENH" parameter. The enhancement option is a non-standard, loop back test that explicitly verifies the virtual path between Lucent Technology PHAs. This test uses the information available at the far endpoint to overwrite part of the ATM loop back cell "tag" or "Source ID" field before sending back the cell. The originating endpoint validates the received "tag" or "Source ID" and outputs the far endpoint's PSU CA as well as the far network and VPI/VCI on which the loop back cell was received. This test can only be properly used between PSU CA endpoints.

The delay option can be used to measure the roundtrip time that the ATM loopback cell takes to go between PSU CA endpoints. This time includes the PHA scheduling and processing time as well as the ATM delay time. Note: For each PHA1 endpoint the approximate processing and scheduling time is 3-5 ms. The delay time will be output when the test successfully completes.

The trace option can be used to trace the PSU routing that is used by each PSU CA endpoint. When originating or responding to the original ATM loopback cell, the near PSU will use its own routing data to determine the correct PVC to use. The source and destination PVC types will be output when the test successfully completes.

2. FORMAT

```
[1]    TST:PSLNK=a-b[,ENH];
       ____________________________________________________________

[2]    TST:PSLNK,PSUCA=a,FARCA=b[,ENH];
       ____________________________________________________________
```

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```
[3]    TST:PSLNK,PSU=c-d,FARCA=b[,ENH];
       ____________________________________________________________

[4]    TST:PSLNK,VPATH=a-b[,FARSN=f][,ENH][,DELAY][,TRACE][,{VP|VC}];
       ____________________________________________________________

[5]    TST:PSLNK,VPATH,PSUCA=a,FARCA=b[,FARSN=f][,ENH][,DELAY][,TRACE][,{VP|VC}];
       ____________________________________________________________

[6]    TST:PSLNK,VPATH,PSU=c-d,FARCA=b[,FARSN=f][,ENH][,DELAY][,TRACE][,{VP|VC}];
       ____________________________________________________________

[7]    TST:PSLNK,VPATH,PSALNK=c-d-e,FARCA=b[,FARSN=f][,ENH][,DELAY][,TRACE][,{VP|
       VC}];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ENH` = Enhancement option for more rigorous verification of the "tag" or "Source ID" field in the ATM loop back cell. With this option, the far endpoint and the virtual path taken by the responding loop back cell are explicitly verified. Refer to the **PURPOSE** section for more complete explanation. This test is only to be used between PSU CA end points.

`DELAY` = Perform the same tests as specified in the enhancement option and in addition specifies that the ATM delay time between PSU CA end points be displayed.

`TRACE` = Perform the same tests as specified in the enhancement option and in addition specifies that a trace of the far PSU CA endpoints routing data be executed.

`VC` = Virtual channel option specifies that a virtual channel test be executed.

`VP` = Virtual path option specifies that a virtual path test be executed.

`a` = Near end PSU community address (a non-zero number) of the PSU link or virtual path.

`b` = Far end PSU community address (a non-zero number) of a PSU link or of a virtual path.

`c` = Switching module (SM) number.

`d` = PSU number.

`e` = PSU link number.

`f` = Far subnetwork number.

4. SYSTEM RESPONSE

`NG` = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

`PF` = Printout follows. Followed by the TST:PSLNK output message.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Output Message(s):

```
TST:PSLNK
```

Input Appendix(es):

```
APP:RANGES
```

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TST:PSLNK-D

Software Release: 5E18(1) - 5E19(1)
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests an asynchronous transfer mode (ATM) level loop back test between two endpoints of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 7). Each endpoint is uniquely addressed with a non-zero PSU community address (CA) within that network.

A PSU link is uniquely identified by the CAs of two PSUs within the point-to-point network, that this PSU link connects. Similarly, a virtual path (VPATH) is uniquely identified by the CAs of two PSUs within the point-to-multipoint ATM network, that this VPATH connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the PSU link's or VPATH's far end PSU CA can not be specified by the PSU equipment number and must always be entered as PSU CA. When requesting an inter-network loop back test, the far subnetwork number is needed.

There are two options of the loop back test. The default loop back test is the standard test as described in the GR-1248 ATM specification. This test is useful for checking provisioning between ATM endpoints through an ATM center-stage switch. This test verifies that the far endpoint received the loop back cell, and returned the cell within the proper time interval. This test will not detect the case where the far endpoint that returned the ATM loop back cell was not the endpoint specified by the input message. This could happen if there is a misprovisioned ATM center-stage switch that connects to an ATM end point that can return the loop back cell.

The second option is the "enhanced" test, which is invoked using the "ENH" parameter. The enhancement option is a non-standard, loop back test that explicitly verifies the virtual path between Lucent Technology PHAs. This test uses the information available at the far endpoint to overwrite part of the ATM loop back cell "tag" or "Source ID" field before sending back the cell. The originating endpoint validates the received "tag" or "Source ID" and outputs the far endpoint's PSU CA as well as the virtual path identifier (VPI)/virtual channel identifier (VCI) on which the loop back cell was received. For a protocol handler for ATM version 2 (PHA2) originated and terminated test the near PSU link number and far endpoint's network and PSU link number will also be output. This test can only be properly used between PSU CA endpoints.

The delay option can be used to measure the round trip time that the ATM loopback cell takes to go between PSU CA endpoints. This time includes the PHA scheduling and processing time as well as the ATM delay time. Note: For each PHA1 endpoint the approximate processing and scheduling time is 3-5 ms. The delay time will be output when the test successfully completes.

The trace option can be used to trace the PSU routing that is used by each PSU CA endpoint. When originating or responding to the original ATM loopback cell, the near PSU will use its own routing data to determine the correct PVC to use. The source and destination PVC types will be output when the test successfully completes. The trace option may fail if the routing assignments for the far endpoint PSU are assigned to multiple PHA2 links.

The application type (AT) option can be used to specify whether only a high or low priority PVC test should be executed. When the AT is not specified the test will be executed over the appropriate PVCs based on the current routing assignment and/or PSU CA data.

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2. FORMAT

```
[1]    TST:PSLNK=a-b[,ENH];
       ____________________________________________________________

[2]    TST:PSLNK,PSUCA=a,FARCA=b[,ENH];
       ____________________________________________________________

[3]    TST:PSLNK,PSU=c-d,FARCA=b[,ENH];
       ____________________________________________________________

[4]    TST:PSLNK,VPATH=a-b[,FARSN=f][,ENH][,DELAY][,TRACE]
       [,{VP|VC}][,AT=g];
       ____________________________________________________________

[5]    TST:PSLNK,VPATH,PSUCA=a,FARCA=b[,FARSN=f][,ENH]
       [,DELAY][,TRACE][,{VP|VC}][,AT=g];
       ____________________________________________________________

[6]    TST:PSLNK,VPATH,PSU=c-d,FARCA=b[,FARSN=f][,ENH]
       [,DELAY][,TRACE][,{VP|VC}][,AT=g];
       ____________________________________________________________

[7]    TST:PSLNK,VPATH,PSALNK=c-d-e,FARCA=b[,FARSN=f][,ENH]
       [,DELAY][,TRACE][,{VP|VC}][,AT=g];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ENH` = Enhancement option for more rigorous verification of the "tag" or "Source ID" field in the ATM loop back cell. With this option, the far endpoint and the virtual path taken by the responding loop back cell are explicitly verified. Refer to the **PURPOSE** section for more complete explanation. This test is only to be used between PSU CA end points.

`DELAY` = Perform the same tests as specified in the enhancement option and in addition specifies that the ATM delay time between PSU CA end points be displayed.

`TRACE` = Perform the same tests as specified in the enhancement option and in addition specifies that a trace of the far PSU CA endpoints routing data be executed. This parameter is ony valid for PHA2 initiated tests.

`VC` = Virtual channel option specifies that a virtual channel test be executed. This parameter is ony valid for PHA2 initiated tests.

`VP` = Virtual path option specifies that a virtual path test be executed. This parameter is ony valid for PHA2 initiated tests.

`a` = Near end PSU community address (a non-zero number) of the PSU link or virtual path.

`b` = Far end PSU community address (a non-zero number) of a PSU link or of a virtual path.

`c` = Switching module (SM) number.

`d` = PSU number.

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e = PSU link number. This parameter is ony valid for PHA2 initiated tests.

f = Far subnetwork number. This parameter is ony valid for PHA2 initiated tests.

g = Application type. Valid value(s):
- H = High priority application.
- L = Low priority application.

This parameter is ony valid for PHA2 initiated tests.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the TST:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

TST:PSLNK

Input Appendix(es):

APP:RANGES

TST:PSLNK-E

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests an asynchronous transfer mode (ATM) level loop back test between two endpoints of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 7) or between 2 endpoints in an internet protocol (IP) network (formats 4 through 7). Each endpoint is uniquely addressed with a non-zero PSU community address (CA) within that network.

A PSU link is uniquely identified by the CAs of two PSUs within the point-to-point network, that this PSU link connects. Similarly, a virtual path (VPATH) is uniquely identified by the CAs of two PSUs within the point-to-multipoint ATM network, that this VPATH connects. In an IP network, an IP connection is uniquely identified by the CAs of two PSUs with IP soft hand-off (SHO) protocol handlers (PHs). The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the PSU link's or VPATH's far end PSU CA can not be specified by the PSU equipment number and must always be entered as PSU CA. When requesting an inter-network loop back test, the far subnetwork number is needed.

There are two options of the loop back test. The default loop back test is the standard test as described in the GR-1248 ATM specification. This test is useful for checking provisioning between ATM endpoints through an ATM center-stage switch. This test verifies that the far endpoint received the loop back cell, and returned the cell within the proper time interval. This test will not detect the case where the far endpoint that returned the ATM loop back cell was not the endpoint specified by the input message. This could happen if there is a misprovisioned ATM center-stage switch that connects to an ATM end point that can return the loop back cell.

The second option is the "enhanced" test, which is invoked using the "ENH" parameter. The enhancement option is a non-standard, loop back test that explicitly verifies the virtual path between Lucent Technology PHAs. This test uses the information available at the far endpoint to overwrite part of the ATM loop back cell "tag" or "Source ID" field before sending back the cell. The originating endpoint validates the received "tag" or "Source ID" and outputs the far endpoint's PSU CA as well as the virtual path identifier (VPI)/virtual channel identifier (VCI) on which the loop back cell was received. For a protocol handler for ATM version 2 (PHA2) originated and terminated test the near PSU link number and far endpoint's network and PSU link number will also be output. This test can only be properly used between PSU CA endpoints.

The delay option can be used to measure the round trip time that the ATM loopback cell takes to go between PSU CA endpoints. This time includes the PHA scheduling and processing time as well as the ATM delay time. Note: For each PHA1 endpoint the approximate processing and scheduling time is 3-5 ms. The delay time will be output when the test successfully completes.

The trace option can be used to trace the PSU routing that is used by each PSU CA endpoint. When originating or responding to the original ATM loopback cell, the near PSU will use its own routing data to determine the correct PVC to use. The source and destination PVC types will be output when the test successfully completes. The trace option may fail if the routing assignments for the far endpoint PSU are assigned to multiple PHA2 links.

The application type (AT) option can be used to specify whether only a high or low priority PVC test should be executed. When the AT is not specified the test will be executed over the appropriate PVCs based on the

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current routing assignment and/or PSU CA data.

The IP option can be used to specify a test between IP SHO PHs within 2 different CAs.

2. FORMAT

```
[1]    TST:PSLNK=a-b[,ENH];
       ____________________________________________________________

[2]    TST:PSLNK,PSUCA=a,FARCA=b[,ENH];
       ____________________________________________________________

[3]    TST:PSLNK,PSU=c-d,FARCA=b[,ENH];
       ____________________________________________________________

[4]    TST:PSLNK,VPATH=a-b[,FARSN=f][,ENH][,DELAY][,TRACE]
       [,{VP|VC|IP}][,AT=g];
       ____________________________________________________________

[5]    TST:PSLNK,VPATH,PSUCA=a,FARCA=b[,FARSN=f][,ENH]
       [,DELAY][,TRACE][,{VP|VC|IP}][,AT=g];
       ____________________________________________________________

[6]    TST:PSLNK,VPATH,PSU=c-d,FARCA=b[,FARSN=f][,ENH]
       [,DELAY][,TRACE][,{VP|VC|IP}][,AT=g];
       ____________________________________________________________

[7]    TST:PSLNK,VPATH,PSALNK=c-d-e,FARCA=b[,FARSN=f][,ENH]
       [,DELAY][,TRACE][,{VP|VC|IP}][,AT=g];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ENH` = Enhancement option for more rigorous verification of the "tag" or "Source ID" field in the ATM loop back cell. With this option, the far endpoint and the virtual path taken by the responding loop back cell are explicitly verified. Refer to the **PURPOSE** section for more complete explanation. This test is only to be used between PSU CA end points.

`DELAY` = Perform the same tests as specified in the enhancement option and in addition specifies that the ATM delay time between PSU CA end points be displayed.

`IP` = Internet protocol. This parameter is only valid for PHE4 initiated tests.

`TRACE` = Perform the same tests as specified in the enhancement option and in addition specifies that a trace of the far PSU CA endpoints routing data be executed. This parameter is ony valid for PHA2 initiated tests.

`VC` = Virtual channel option specifies that a virtual channel test be executed. This parameter is ony valid for PHA2 initiated tests.

`VP` = Virtual path option specifies that a virtual path test be executed. This parameter is ony valid for PHA2 initiated tests.

`a` = Near end PSU community address (a non-zero number) of the PSU link or virtual path.

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b = Far end PSU community address (a non-zero number) of a PSU link or of a virtual path.

c = Switching module (SM) number.

d = PSU number.

e = PSU link number. This parameter is ony valid for PHA2 initiated tests.

f = Far subnetwork number. This parameter is ony valid for PHA2 initiated tests.

g = Application type. Valid value(s):
H = High priority application.
L = Low priority application.

This parameter is ony valid for PHA2 initiated tests.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the TST:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

TST:PSLNK

Input Appendix(es):

APP:RANGES

TST:PSUPH-FAULT-A

Software Release: 5E15 only
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified software fault be inserted into a packet switch unit (PSU) protocol handler (PH).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Use of this message can lead to a service outage. Know the effects of the message before using it.

2. FORMAT

```
TST:PSUPH=a-b-c-d,FAULT=e[-f[-g...[-n]][,COUNT=o];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e-n` = ID number(s) for the desired software fault.

`o` = Number of times to execute specified test (default is 1).

4. SYSTEM RESPONSE

`NA` = No acknowledgement. This response is expected due to potential for recovery action.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

118x (PSU SHELF)
1186 (PSU NETWORK)
1187 (PSU LINK STATUS)

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TST:PSUPH-FAULT-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified software fault be inserted into a packet switch unit (PSU) protocol handler (PH).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Use of this message can lead to a service outage. Know the effects of the message before using it.

2. FORMAT

```
TST:PSUPH=a-b-c-d,FAULT=e[-f[-g...[-n]][,COUNT=o];
```

3. EXPLANATION OF MESSAGE

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e-n` = ID number(s) for the desired software fault.

`o` = Number of times to execute specified test (default is 1).

4. SYSTEM RESPONSE

`NA` = No acknowledgement. This response is expected due to potential for recovery action.

5. REFERENCES

Input Appendix(es):

`APP:RANGES`

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MCC Display Page(s):

PSU SHELF
PSU NETWORK
PSU LINK STATUS

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TST:RATE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a rate query be sent to the real time rating system (RTRS) database to verify its operation.

It should be noted that optional fields specified in this message which are not valid for that query type will be ignored. The query request will be processed as if they were not entered.

2. FORMAT

```
TST:RATE=a-b-c-d-e-f-g-h-i[,PTP][,CTYP=j][,ACI][,STYP=k]
[,DUR=l][,CCL=m][,CCRD=n][,CU104][,CMCD=o][,CP104][,BAL=p]
[,MQD=q][,CRS=r][,API=s][,SC=t][,AO=u][,FNE=v][,SASI=w][,PCCS=x][,FMS]
[,SRCHTYP1=y-z][,SRCHTYP2=a'-b'][,DATYPE=c'][,PAYCOMP=d'];
```

3. EXPLANATION OF MESSAGE

`ACI` = Automated call indicator. Absence of this indicates that the call was operator-handled.

`CP104` = Comparison card 10+4 indicator. Indicates that the comparison card was a 10+4 card. Absence of this implies some other kind of calling card.

`CU104` = Customer card 10+4 indicator. Indicates that the customer calling card was a 10+4 card. Absence of this implies some other kind of calling card.

`FMS` = Flat and measured services indicator. Specifies that both flat and measured services rates are requested in the rating reply.

`PTP` = Person-to-person indicator. Absence of this indicates that the call was station-to-station.

`a` = The originating ten digit directory number.

`b` = The terminating directory number. For a U.S. number, this is a ten digit directory number. For an international number, this is the country code followed by the national number.

`c` = The carrier ID. For an interexchange carrier, this is the four-digit carrier code. For a non-interexchange carrier, use 16383 for the carrier code.

`d` = Number of days that have elapsed between the start of the current year and the day the call started.

`e` = Hour of the start time of the call (0 to 23).

`f` = Minutes of the start time of the call (0 to 59).

`g` = Seconds of the start time of the call (0 to 59).

`h` = The query type. Valid value(s):

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EC = End-of-call query.
IC = Initial coin query.
IN = Interim query.
PLI = Purchase limits initial query.
PLS = Purchase limits subsequent query.
RQ = Rate quote query.

i = The billing class. Valid value(s):
ASP = Automatic charge quotation service (ACQS) sent-paid.
CCB = Calling card billing.
COB = Collect billing.
CSP = Coin sent paid.
NSP = Non-coin/non-ACQS sent paid.
TNB = Third number billing.

j = Call type. Valid value(s):
0M = Zero minus.
0P = Zero plus (default).
1P = One plus.

k = Special type (STYP). Defaults to no special type. Valid value(s):
BLV = Busy line verification.
CC = Call completion.
CCTC = Call completion with time and charge.
DAC = Directory assistance call.
NCN = Non-coin notify.
TAC = Time & charge call.

l = Duration (DUR) of the call in seconds. This is required if the query type is EC, IN or PLS.

m = Country code length (CCL). This is required if the terminating directory number is an international number.

n = Customer credit card (CCRD). This is an optional field for a calling card rate quote, T&C, or purchase limits initial or subsequent query. This is the vendor/issuer ID digits (first 2-7 digits of calling card). If the calling customer's card is a LEC(10+4) card, only 6 digits of the card should be entered. The card will be accepted even if 6 digits are not entered, but the rating results will be incorrect. Otherwise, the number of digits in the vendor/issuer ID should match their corresponding entries in the card recognition tables RC/V View 27.55.

o = Comparison credit card (CMCD). This is an optional field for rate quote differentiation of card service charges queries. This is the vendor/issuer ID digits (first 2-7 digits of comparison card). If the comparison card is a LEC(10+4) card, only 6 digits of the card should be entered. The card will be accepted even if 6 digits are not entered, but the rating results will be incorrect. Otherwise, the number of digits in the vendor/issuer ID should match their corresponding entries in the card recognition tables. If this field is specified, the CCRD field above must also be included in the input message.

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p = Purchase limits balance (BAL) in pennies. This field is required if this is an initial purchase limits query request. The range of values is from 0 to 999999 (0-$9999.99).

q = Method of ACQS quote delivery. This is required if the billing class is ASP, the query type is EC or RQ and the ACQS rate distinction secure feature bit is active. Valid value(s):

- FAX = FAX quote.
- NWA = Network autoquote.
- PLA = Private line autoquote.
- VCQ = Voice quote.

r = Card rate specifier (CRS). This is an optional field used to obtain rate quotes for calls billed to special cards. This field should only be entered if the billing class is "Calling card billing". The absence of this field should be interpreted as card rate = 0 (standard card rates).

s = Access provider identifier (API). This is an optional field used to identify the source carrier for certain types of incoming feature group D (FGD) calls. It must be a valid carrier identification code (CIC). The API is four digits in length (0 to 9999).

t = Service code (SC). This is an optional field used to obtain rate quotes for a specific set of incoming FGD calls requiring access to operator service position system (OSPS) toll and assistance (T&A) features. It is used to identify specific services or billing arrangements based on the back number. The SC is four digits in length (0 to 9999).

u = Automation offering (AO). This is an optional field used to identify the level of automation (type of treatment) associated with a given OSPS 0-/00- originated call. Valid value(s):

- APS = Automated position system handled.
- NA = Not applicable (not used by call processing at this time).
- OPER = Operator handled.
- SWITCH = Switch (not used by call processing at this time).

v = Forward number entry (FNE). This is an optional field used to identify who entered the forward number associated with a given OSPS 0-/00- originated call. Valid value(s):

- CUST = Customer entered the forward number at the APS.
- NA = Not applicable (not used by call processing at this time).
- OPER = Operator entered the forward number.
- SWITCH = Switch (not used by call processing at this time).

w = Special access service identifier (SASI). This is an optional field used to identify the special access service identifier associated with a special access call handling call. The range of values is from 1 to 10.

x = Prior call completion status (PCCS). This is an optional field used to identify the prior call completion status associated with a special access call handling call. Valid value(s):

- NEG = Negative prior call completion status.
- POS = Positive prior call completion status.

y = Directory Assistance Search Type 1 (SRCHTYP1). This is an optional field used to identify the first search type value of a directory assistance call. The range of values is from 1 to 999.

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z = Number of searches for directory assistance search type 1 (SRCHTYP1). This is an optional field (used in conjunction with field y) used to identify the number of searches for directory assistance search type 1 of a directory assistance call. The range of values is from 1 to 999.

a[1] = Directory assistance search type 2 (SRCHTYP2). This is an optional field used to identify the second search type value of a directory assistance call. The range of values is from 1 to 999.

b[1] = Number of searches for directory assistance search type 2 (SRCHTYP2). This is an optional field (used in conjunction with field a') used to identify the number of searches for directory assistance search type 2 of a directory assistance call. The range of values is from 1 to 999.

c' = Directory assistance type indicator (DATYPE). This is an optional field used to identify the directory assistance type for a directory assistance call. The range of values is from 1 to 20.

d' = AMA - Record ANI II Digits payphone compensable parameter. This is an optional field used to identify if the Payphone Compensable Eligibility module should be appended. With the value of 0, the module is appended and the call is not payphone compensable. With the value of 1, the module is appended and the call is payphone compensable.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):

- AUTOMATION OFFERING REQUIRES THE CALL TYPE FIELD TO BE ZERO MINUS (0M)
  = The automated service access prompting (ASAP) module is appended when the automation offering field is populated. This module requires the call type field to populated with zero minus (0M).
- AUTOMATION OFFERING REQUIRES THE FORWARD NUMBER ENTRY FIELD TO BE POPULATED
  = The ASAP module is appended when the automation offering field is populated. This module requires both the automation offering field and the forward number entry field to be populated.
- COMPARISON CARD VENDOR/ISSUER ID INVALID = The number of calling card digits specified for a comparison card is not 2 through 7 digits in the CMCD input field.
- CRS PERMITTED ONLY WITH CARD BILLING CLASS = The card rate specifier expects a billing class of calling card.
- CUSTOMER VENDOR/ISSUER ID INVALID = The number of calling card digits specified for a calling customer is not 2 through 7 digits in the CCRD input field.
- CUSTOMER VENDOR/ISSUER ID MISSING = A comparison card vendor/issuer ID has been specified without indicating a customer vendor/issuer ID in the input message.
- DURATION EXCEEDED = The DUR field for EC and IN query types cannot exceed a value of 12 hours in seconds.
- DURATION MISSING = DUR is required for query type of IN, EC, or PLS. This response is also printed if a duration of zero is specified.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- FLAT AND MEASURED SERVICES (FMS) AND CALLING CARDS (CCRD)ARE MUTUALLY EXCLUSIVE

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= The requested action failed. The flat and measured services (FMS) feature does not work with calling cards.

- FLAT AND MEASURED SERVICES (FMS) REQUIRES THE CALL TYPE FIELD TO BE ONE PLUS (1P)
  = The requested action failed. The flat and measured services (FMS) feature only works when prefix is 1+.
- FLAT AND MEASURED SERVICES (FMS) REQUIRES THE BILL CLASS FIELD TO BE OTHER SPECIAL (NSP)
  = The requested action failed. The flat and measured services (FMS) feature only works when the billing class is non-coin/non-ACQS sent paid.
- FLAT AND MEASURED SERVICES (FMS) REQUIRES THE SPECIAL TYPE FIELD TO BE NO SPECIAL TYPE
  = The requested action failed. The flat and measured services (FMS) feature only works when there is no special type.
- FORWARD NUMBER ENTRY REQUIRES THE AUTOMATION OFFERING FIELD TO BE POPULATED
  = The ASAP module is appended when the automation offering field is populated. This module requires both the automation offering field and the forward number entry field to be populated. Since the forward number entry field is populated and the automation offering field is not, the query cannot be processed with this lack of information.
- METHOD OF QUOTE DELIVERY INVALID = The MQD field must not be entered if the billing class is not ASP and the ACQS rate distinction secure feature bit is not active.
- METHOD OF QUOTE DELIVERY MISSING = The MQD field must be entered for a billing class of ASP when the ACQS rate distinction secure feature bit is active.
- NUMBER OF SEARCHES FOR SEARCH TYPE 1 MISSING = The number of searches for directory assistance search type 1 must be entered if a value for the first directory assistance search type has been entered.
- NUMBER OF SEARCHES FOR SEARCH TYPE 2 MISSING = The number of searches for directory assistance search type 2 must be entered if a value for the second directory assistance search type has been entered.
- ORIGINATING DN = The originating directory number must be ten digits.
- PRIOR CALL COMPLETION STATUS MISSING = The PCCS field must be entered if a value for the SASI field has been entered.
- PURCHASE LIMITS BALANCE OUT OF RANGE = The BAL field for a PLI query cannot exceed a value of $9999.99 in pennies. This response is also printed if the BAL field is not specified for a PLI rating test query.
- PURCHASE LIMITS DURATION EXCEEDED = The DUR field for a subsequent PLS query cannot exceed a value of 48 hours in seconds.
- QUERY TYPE/BILLING CLASS INVALID = The billing class of ASP requires a query type of EC or RQ when the ACQS rate distinction secure feature bit is active.
- SEARCH TYPE 1 MISSING = The value of the first directory assistance search type must be entered if a value has been entered for the number of searches for directory assistance search type 1.
- SEARCH TYPE 2 MISSING = The value of the second directory assistance search type must be entered if a value has been entered for the number of searches for directory assistance search type 2.
- SPECIAL ACCESS SERVICE IDENTIFIER MISSING = The SASI field must be entered if a value for the PCCS field has been entered.
- TERMINATING DN = The terminating directory number must be either a ten digit U.S.

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number or a country code and national number with the length of the country code specified using the keyword CCL.

- `UNABLE TO SEND QUERY` = The query could not be sent to the RTRS database.

`PF` = Printout follows. The request has been received. Followed by the TST:RATE output message.

`RL` = Retry later. Valid value(s):
- `TEST IN PROGRESS` = Another RTRS test is in progress.
- `TOO MANY QUERIES RUNNING` = No RATE query IDs are available.

5. REFERENCES

Input Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD
```

Output Message(s):

```
EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE
```

RC/V View(s):

27.55 (OSPS TELEPHONE CREDIT CARD IDENTIFICATION)

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TST:TRK-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests automatic operational or transmission tests on individual trunks, a range of trunks in a trunk group, or an entire trunk group. In addition, X.25 access on T1 (XAT) ports and packet handler voice (PHV) speech handler trunks can be tested using this message, with corresponding additional identifiers.

Note: For Cell site and IVT APX trunks, the ECP must be notified before a test can be run.

For the APX trunks only, the trunk status will be changed to OOS before the trunk is tested and the trunk will be restored to its original status when the test is complete. For all others, when the tests are completed, the trunk will be restored to the state that it was in before being tested.

This message cannot be used to run explicit hardware tests. Refer to the DGN:TEN and DGN:DFI input messages for hardware tests of analog and digital trunks, respectively.

Format 1 (TKGMN) allows for a single trunk or a range of trunks in a trunk group to be tested.

Format 2 (TEN) tests a single analog trunk.

Format 3 (DEN) tests a single digital trunk.

Format 4 network equipment number (NEN) tests a single trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

Format 5 (TG) tests a trunk group.

Format 6 (MLHG) tests a trunk that has multi-line hunt group and member associated with it. Currently this includes XAT ports.

Format 7 (PKTDN) tests a trunk that has a packet directory number associated with it. Currently this includes XAT ports.

Format 8 (PLTEN) tests a trunk that has a peripheral control and timing (PCT) line and trunk equipment number associated with it.

Format 9 (SLEN) tests a *SLC®* line equipment number.

Format 10 (ILEN) tests an integrated digital carrier unit line equipment number.

Format 11 (PSUEN) test a single protocol handler channel. Currently this includes speech handler trunks on PHV ports.

Format 12 (INEN) tests a single digital trunk.

2. FORMAT

```
[1]    TST:TRK,TKGMN=a-b[&&c][,PRINT][,RPT=n][,TYPE=o][,OPDN=p]
```

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```
       [,DUR=q][,BLKSZ=r];

[2]    TST:TRK,TEN=d-e-f-g-h[,PRINT][,RPT=n][,TYPE=o][,OPDN=p];

[3]    TST:TRK,DEN=d-j-k-l[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q]
       [,BLKSZ=r];

[4]    TST:TRK,NEN=d-a[1]-b[1]-c[1]-d[1]-e[1]-f[1]-g[1][,PRINT][,RPT=n][,TYPE=o]
       [,OPDN=p][,DUR=q][,BLKSZ=r];

[5]    TST:TRK,TG=m[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q]
       [,BLKSZ=r];

[6]    TST:TRK,MLHG=s-t[,PRINT][,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r];

[7]    TST:TRK,PKTDN=u[,PRINT][,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r];

[8]    TST:TRK,PLTEN=d-k[1]-l[1]-m[1]-n[1][,PRINT][,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r];

[9]    TST:TRK,SLEN=d-w-x-y[,PRINT][,RPT=n][,TYPE=o][,OPDN=p];

[10]   TST:TRK,ILEN=d-z-x-y[,PRINT][,RPT=n][,TYPE=o][,OPDN=p];

[11]   TST:TRK,PSUEN=d-h[1]-i[1]-j[1][,PRINT][,RPT=n][,TYPE=o];

[12]   TST:TRK,INEN=d-a[1]-x-y[,PRINT][,RPT=n][,TYPE=o][,OPDN=p];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

`PRINT` = Print the output generated from this request on the ROP. By default, if the request is entered from the Master Control Center (MCC) it prints on the ROP or if the request is entered from a terminal (TTY) other than the MCC the output will then only print on that TTY.

`RPT` = Repeat the test.

`a` = Trunk group number.

`b` = Trunk member number or lower limit of range of trunk group member numbers.

`c` = Upper limit of range of trunk group member numbers.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of

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the Input Messages manual.

`h` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Channel number. If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Trunk group number. Each member of the group will be tested, and output will be reported for each trunk.

`n` = Number of times to run test. (1-32, default 1).

If a value greater than 32 is specified, only 32 tests will be run. The output will be in a form that summarizes the results of all tests run.

`o` = The type of test to be executed.

Transmission tests (refer to Exhibit A).

If no test type is specified, the office-defined default operational test type for the trunk group, if one exists, will be run.

The default test for packet switching trunks and XAT ports is an LBKOCU operational test, with a loopback (LBK) termination point at the office channel unit (OCU) interswitch transmission equipment.

Note that the only valid test types for packet switching trunks and XAT ports are LBKOCU and LBKCSU, a LBK termination point at the channel service unit (CSU) interswitch transmission equipment. Requests for any other test type on a packet switching trunk or an XAT port will be rejected.

Operational tests. Valid value(s):

`103`	= Signal-supervisory test line.
`CTX2`	= Phase II Centrex test type.
`CTX3`	= Phase III Centrex test type.
`NSYNC`	= Non-synchronous test line.
`PERM`	= Permanent busy test line.
`SYNC`	= Synchronous test line.
`SXS`	= Step-by-step test type.

`p` = Digits to be outpulsed for the specified test. If they are not specified, the office-defined default digits for the test type will be used. Note that outpulsing is not applicable during the testing of packet switching trunks. If optional digits are specified, they will be ignored.

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`q` = Duration of digital tests, in seconds (1-3600). Default = 2 seconds (operational test only).

`r` = Number of consecutive binary digits that are contained in a block (1-64000). Consecutive blocks are transmitted during the test and the number of error-free blocks received from the far end is printed when the test ends.

`s` = MLHG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Directory number (DN).

`w` = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Digital network unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = SONET terminal equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Digital Signal Level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = PSU community number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the

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Appendixes section of the Input Messages manual.

`k`[1] = PCT line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Exhibit A: TYPES OF TRANSMISSION TESTS

Test Type	Measurement	Expected Level	Filter	Remarks
100	Level	0dBm0	1004Hz	Near end
100	Noise	--	C-message	
100RL	Level	0dBm0	1004Hz	Near end
100RL	Noise	--	C-message	
100RL	Echo return loss	Band-limited noise	--	
100RL	Singing return loss (low frequency)	Band-limited noise	--	
100RL	Singing return loss (high frequency)	Band-limited noise	--	
100ERL	Level	0dBm0	1004Hz	Near end
100ERL	Noise	--	C-message	
100ERL	Echo return loss	Band-limited noise		
100SRL	Level	0dBm0	1004Hz	Near end
100SRL	Noise	--	C-message	
100SRL	Singing return loss (low frequency)	Band-limited noise		
100SHI	Level	0dBm0	1004Hz	Near end
100SHI	Noise	--	--	
100SHI	Singing return loss (high frequency)	Band-limited noise	C-message	
102LB	Level	0dBm0	1004Hz	Near end
102	Level	0dBm	1004Hz	Both ends
102	Noise	--	C-message	
105ALL	--	--	--	All 105 & CSTS not run
105L	Level	0dBm0	1004Hz	Both ends
105RN	Noise	--	C-message	Near end
105N	Noise	--	C-message	Far end
105L4	Level	-16dBm0	404Hz	Both ends
105L10	Level	-16dBm0	1004Hz	Both ends
105L28	Level	-16dBm0	2804Hz	Both ends
105NT	Noise with tone	--	1004Hz notch	Both ends
105ERL	Echo return loss	Band-limited noise	--	Both ends
105SRL	Singing return loss (low frequency)	Band-limited noise	--	Both ends
105SHI	Singing return loss (high frequency)	Band-limited noise	--	Both ends
106	Far to near loss	0dBm0	--	TR looped
106	Near to far loss	--	--	to T1 R1
CONT	Voice path assurance test tones and levels are trunk dependent.			CCS trunks only

Note 1: The standard 105 test includes: 105L, 105RN, 105N, and 105NT.

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Note 2: The 105RL (return loss) test includes: 105ERL, 105SRL, and 105SHI.
Note 3: The 105GS (gain slope) test includes: 105L4, 105L10, and 105L28.
Note 4: The 105ALL test includes the following 105 test line tests: 105L, 105RN, 105N, 105L4, 105L10, 105L28, and 105NT.
Note 5: 102LB test executes 1004 Hz at 0dB transmission and C-message noise filter used in measurement for noise. This test was designed for APX BSSAPS2 and IVT trunks.

Exhibit B: TYPES OF DIGITAL TESTS

Test Type	Measurement	Ideal Level	Remarks
LBK	Bit error rate	0.00E 00	Non-inverting test
LBK	Error free blocks	errors per bit	line at far end
LBKCSU	Bit error rate	0.00E 00	Packet switched
LBKCSU	Error free blocks	errors per bit	trunks only
LBKINV	Bit error rate	0.00E 00	Inverting test
LBKINV	Error free blocks	errors per bit	line at far end
LBKOCU	Bit error rate	0.00E 00	Packet switched
LBKOCU	Error free blocks	errors per bit	trunks only
MANSCRE	Bit error rate	0.00E 00	Manually initiated
MANSCRE	Error free blocks	errors per bit	non-inverting loopback at far end
SHCT	Bit error rate	0.00E 00	Speech handler
SHCT	Error free blocks	errors per bit	trunks only

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted, and will be followed by a TST:TRK output message.

`RL` = Retry later. The request has been denied due to the system load. The OP:JOBSTATUS input message can be used to determine if the RL was issued because the maximum number of jobs are active.

5. REFERENCES

Input Message(s):

```
DGN:DFI
DGN:TEN
OP:JOBSTATUS
```

Output Message(s):

```
TST:TRK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-190-115 *Local and Toll System Features*
235-190-120 *Common Channel Signaling Service Features*

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235-900-113 *Product Specification*

RC/V View(s):

5.1 (TRUNK GROUP)
14.1 (AUTO TRUNK TEST)

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TST:TRK-B

Software Release: 5E16(1) - 5E19(1)
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests automatic operational or transmission tests on individual trunks, a range of trunks in a trunk group, or an entire trunk group. In addition, X.25 access on T1 (XAT) ports and packet handler voice (PHV) speech handler trunks can be tested using this message, with corresponding additional identifiers.

Note: For Cell site and IVT APX trunks, the ECP must be notified before a test can be run.

For the APX trunks only, the trunk status will be changed to OOS before the trunk is tested and the trunk will be restored to its original status when the test is complete. For all others, when the tests are completed, the trunk will be restored to the state that it was in before being tested.

This message cannot be used to run explicit hardware tests. Refer to the DGN:TEN and DGN:DFI input messages for hardware tests of analog and digital trunks, respectively.

Format 1 (TKGMN) allows for a single trunk or a range of trunks in a trunk group to be tested.

Format 2 (TEN) tests a single analog trunk.

Format 3 (DEN) tests a single digital trunk.

Format 4 network equipment number (NEN) tests a single trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

Format 5 tests a trunk group.

Format 6 tests a trunk that has multi-line hunt group and member associated with it. Currently this includes XAT ports.

Format 7 tests a trunk that has a packet directory number associated with it. Currently this includes XAT ports.

Format 8 tests a trunk that has a peripheral control and timing (PCT) line and trunk equipment number associated with it.

Format 9 tests a *SLC®* line equipment number.

Format 10 tests an integrated digital carrier unit line equipment number.

Format 11 tests a single protocol handler channel. Currently this includes speech handler trunks on PHV ports.

Format 12 tests a single digital trunk.

Format 13 tests a virtual packet trunk.

Format 14 tests an optical interface unit equipment number.

2. FORMAT

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```
[1]   TST:TRK,TKGMN=a-b[&&c][,PRINT][,RPT=n][,TYPE=o][,OPDN=p]
      [,DUR=q][,BLKSZ=r][,CAMP=r1];

[2]   TST:TRK,TEN=d-e-f-g-h[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,CAMP=r1];

[3]   TST:TRK,DEN=d-j-k-l[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q]
      [,BLKSZ=r][,CAMP=r1];

[4]   TST:TRK,NEN=d-a1-b1-c1-d1-e1-f1-g1[,PRINT][,RPT=n][,TYPE=o]
      [,OPDN=p][,DUR=q][,BLKSZ=r][,CAMP=r1];

[5]   TST:TRK,TG=m[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q][,BLKSZ=r]
      [,CAMP=r1];

[6]   TST:TRK,MLHG=s-t[,PRINT][,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r][,CAMP=r1];

[7]   TST:TRK,PKTDN=u[,PRINT][,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r][,CAMP=r1];

[8]   TST:TRK,PLTEN=d-l1-m1-n1-o1[,PRINT][,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r]
      [,CAMP=r1];

[9]   TST:TRK,SLEN=d-w-x-y[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,CAMP=r1];

[10]  TST:TRK,ILEN=d-z-x-y[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,CAMP=r1];

[11]  TST:TRK,PSUEN=d-h1-i1-j1-k1[,PRINT][,RPT=n][,TYPE=o][,CAMP=r1];

[12]  TST:TRK,INEN=d-a1-x-y[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,CAMP=r1];

[13]  TST:TRK,VTRK=d-p1-q1[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q]
      [,BLKSZ=r][,CAMP=r1];

[14]  TST:TRK,OIUEN=d-s1-t1-u1-d1-e1-f1-g1[,PRINT][,RPT=n][,TYPE=o][,OPDN=p]
      [,DUR=q][,BLKSZ=r][,CAMP=r1];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

`PRINT` = Print the output generated from this request on the ROP. By default, if the request is entered from the Master Control Center (MCC) it prints on the ROP or if the request is entered from a terminal (TTY) other than the MCC the output will then only print on that TTY.

`RPT` = Repeat the test.

`a` = Trunk group number.

`b` = Trunk member number or lower limit of range of trunk group member numbers.

`c` = Upper limit of range of trunk group member numbers.

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`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Channel number. If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Trunk group number. Each member of the group will be tested, and output will be reported for each trunk.

`n` = Number of times to run test. (1-32, default 1).

If a value greater than 32 is specified, only 32 tests will be run. The output will be in a form that summarizes the results of all tests run.

`o` = The type of test to be executed.

Transmission tests. Refer to the APP:TRANS-TESTS appendix in the Appendixes section of the Input Messages manual.

If no test type is specified, the office-defined default operational test type for the trunk group, if one exists, will be run.

The default test for packet switching trunks and XAT ports is an LBKOCU operational test, with a loopback (LBK) termination point at the office channel unit (OCU) interswitch transmission equipment.

Note that the only valid test types for packet switching trunks and XAT ports are LBKOCU and LBKCSU, a LBK termination point at the channel service unit (CSU) interswitch transmission equipment. Requests for any other test type on a packet switching trunk or an XAT port will be rejected.

Operational tests. Valid value(s):

`103` = Signal-supervisory test line.
`CTX2` = Phase II Centrex test type.

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CTX3	= Phase III Centrex test type.
NSYNC	= Non-synchronous test line.
PERM	= Permanent busy test line.
SYNC	= Synchronous test line.
SXS	= Step-by-step test type.

p = Digits to be outpulsed for the specified test. If they are not specified, the office-defined default digits for the test type will be used. Note that outpulsing is not applicable during the testing of packet switching trunks. If optional digits are specified, they will be ignored.

q = Duration of digital tests, in seconds (1-3600). Default = 2 seconds (operational test only).

r = Number of consecutive binary digits that are contained in a block (1-64000). Consecutive blocks are transmitted during the test and the number of error-free blocks received from the far end is printed when the test ends.

s = MLHG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Directory number (DN).

w = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a[1] = Digital network unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c[1] = SONET terminal equipment (STE) facility number.

d[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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g[1] = Digital Signal Level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h[1] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l[1] = PCT line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p[1] = Virtual trunk facility number.

q[1] = Virtual trunk channel number.

r[1] = Camp-on (CAMP) time (15-3600). The test camps-on for the time specified (in seconds), waiting for the required resources to become available, at which time testing may proceed. If the resources do not become available in the specified time, the test is aborted.

s[1] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t[1] = Protection group (PG) number.

u[1] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted, and will be followed by a TST:TRK output message.

RL = Retry later. The request has been denied due to the system load. The OP:JOBSTATUS input message can be used to determine if the RL was issued because the maximum number of jobs are active.

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5. REFERENCES

Input Message(s):

```
DGN:DFI
DGN:TEN
OP:JOBSTATUS
```

Output Message(s):

```
TST:TRK
```

Input Appendix(es):

```
APP:DIG-TESTS
APP:RANGES
APP:TRANS-TESTS
```

Other Manual(s):

235-190-115	*Local and Toll System Features*
235-200-115	*CNI Common Channel Signaling*
235-200-116	*Signaling Gateway Common Channel Signaling*
235-900-113	*Product Specification*

RC/V View(s):

5.1	TRUNK GROUP
14.1	AUTO TRUNK TEST

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TST:TRK-C

Software Release: 5E20(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests automatic operational or transmission tests on individual trunks, a range of trunks in a trunk group, or an entire trunk group. In addition, X.25 access on T1 (XAT) ports and packet handler voice (PHV) speech handler trunks can be tested using this message, with corresponding additional identifiers.

NOTE: For cell site and IVT APX trunks, the ECP must be notified before a test can be run.

For the APX trunks only, the trunk status will be changed to OOS before the trunk is tested and the trunk will be restored to its original status when the test is complete. For all others, when the tests are completed, the trunk will be restored to the state that it was in before being tested.

This message cannot be used to run explicit hardware tests. Refer to the DGN:TEN and DGN:DFI input messages for hardware tests of analog and digital trunks, respectively.

Format 1 (TKGMN) allows for a single trunk or a range of trunks in a trunk group to be tested.

Format 2 (TEN) tests a single analog trunk.

Format 3 (DEN) tests a single digital trunk.

Format 4 network equipment number (NEN) tests a single trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

Format 5 tests a trunk group.

Format 6 tests a trunk that has multi-line hunt group and member associated with it. Currently this includes XAT ports.

Format 7 tests a trunk that has a packet directory number associated with it. Currently this includes XAT ports.

Format 8 tests a trunk that has a peripheral control and timing (PCT) line and trunk equipment number associated with it.

Format 9 tests a *SLC®* line equipment number.

Format 10 tests an integrated digital carrier unit line equipment number.

Format 11 tests a single protocol handler channel. Currently this includes speech handler trunks and circuit vocoder trunks on PHV ports.

Format 12 tests a single digital trunk.

Format 13 tests a virtual packet trunk.

Format 14 tests an optical interface unit equipment number.

2. FORMAT

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[1] TST:TRK,TKGMN=a-b[&&c][,PRINT][,RPT=n][,TYPE=o]. . .
. . .[,OPDN=p][,DUR=q][,BLKSZ=r][,CODEC=v[1]][,CAMP=r[1]];

---

[2] TST:TRK,TEN=d-e-f-g-h[,PRINT][,RPT=n][,TYPE=o]. . .
. . .[,OPDN=p][,CAMP=r[1]];

---

[3] TST:TRK,DEN=d-j-k-l[,PRINT][,RPT=n][,TYPE=o]. . .
. . .[,OPDN=p][,DUR=q][,BLKSZ=r][,CAMP=r[1]];

---

[4] TST:TRK,NEN=d-a[1]-b[1]-c[1]-d[1]-e[1]-f[1]-g[1][,PRINT]. . .
. . .[,RPT=n][,TYPE=o][,OPDN=p][,DUR=q][,BLKSZ=r]. . .
. . .[,CAMP=r[1]];

---

[5] TST:TRK,TG=m[,PRINT][,RPT=n][,TYPE=o][,OPDN=p]. . .
. . .[,DUR=q][,BLKSZ=r][,CODEC=v[1]][,CAMP=r[1]];

---

[6] TST:TRK,MLHG=s-t[,PRINT][,RPT=n][,TYPE=o][,DUR=q]. . .
. . .[,BLKSZ=r][,CAMP=r[1]];

---

[7] TST:TRK,PKTDN=u[,PRINT][,RPT=n][,TYPE=o][,DUR=q]. . .
. . .[,BLKSZ=r][,CAMP=r[1]];

---

[8] TST:TRK,PLTEN=d-l[1]-m[1]-n[1]-o[1][,PRINT]. . .
. . .[,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r][,CAMP=r[1]];

---

[9] TST:TRK,SLEN=d-w-x-y[,PRINT][,RPT=n][,TYPE=o]. . .
. . .[,OPDN=p][,CAMP=r[1]];

---

[10] TST:TRK,ILEN=d-z-x-y[,PRINT][,RPT=n][,TYPE=o]. . .
. . .[,OPDN=p][,CAMP=r[1]];

---

[11] TST:TRK,PSUEN=d-h[1]-i[1]-j[1]-k[1][,PRINT]. . .
. . .[,RPT=n][,TYPE=o][,CODEC=v[1]][,CAMP=r[1]];

---

[12] TST:TRK,INEN=d-a[1]-x-y[,PRINT][,RPT=n][,TYPE=o]. . .
. . .[,OPDN=p][,CAMP=r[1]];

---

[13] TST:TRK,VTRK=d-p[1]-q[1][,PRINT][,RPT=n]. . .
. . .[,TYPE=o][,OPDN=p][,DUR=q][,BLKSZ=r][,CAMP=r[1]];

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```
[14]   TST:TRK,OIUEN=d-s[1]-t[1]-u[1]-d[1]-e[1]-f[1]-g[1][,PRINT]. . .
       . . .[,RPT=n][,TYPE=o][,OPDN=p][,DUR=q][,BLKSZ=r]. . .
       . . .[,CAMP=r[1]];
```

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

`PRINT` = Print the output generated from this request on the ROP. By default, if the request is entered from the Master Control Center (MCC) it prints on the ROP or if the request is entered from a terminal (TTY) other than the MCC the output will then only print on that TTY.

`RPT` = Repeat the test.

`a` = Trunk group number.

`b` = Trunk member number or lower limit of range of trunk group member numbers.

`c` = Upper limit of range of trunk group member numbers.

`d` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h` = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Channel number. If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Trunk group number. Each member of the group will be tested, and output will be reported for each trunk.

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n = Number of times to run test. (1-32, default 1).

If a value greater than 32 is specified, only 32 tests will be run. The output will be in a form that summarizes the results of all tests run.

o = The type of test to be executed.

Transmission tests. Refer to the APP:TRANS-TESTS appendix in the Appendixes section of the Input Messages manual.

If no test type is specified, the office-defined default operational test type for the trunk group, if one exists, will be run.

The default test for packet switching trunks and XAT ports is an LBKOCU operational test, with a loopback (LBK) termination point at the office channel unit (OCU) interswitch transmission equipment.

Note that the only valid test types for packet switching trunks and XAT ports are LBKOCU and LBKCSU, a LBK termination point at the channel service unit (CSU) interswitch transmission equipment. Requests for any other test type on a packet switching trunk or an XAT port will be rejected.

Operational tests. Valid value(s):

103	= Signal-supervisory test line.
CTX2	= Phase II Centrex test type.
CTX3	= Phase III Centrex test type.
NSYNC	= Non-synchronous test line.
PERM	= Permanent busy test line.
SYNC	= Synchronous test line.
SXS	= Step-by-step test type.

p = Digits to be outpulsed for the specified test. If they are not specified, the office-defined default digits for the test type will be used. Note that outpulsing is not applicable during the testing of packet switching trunks. If optional digits are specified, they will be ignored.

q = Duration of digital tests, in seconds (1-3600). Default = 2 seconds (operational test only).

r = Number of consecutive binary digits that are contained in a block (1-64000). Consecutive blocks are transmitted during the test and the number of error-free blocks received from the far end is printed when the test ends.

s = MLHG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Directory number (DN).

w = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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`x` = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Digital network unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = SONET terminal equipment (STE) facility number.

`d`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = Digital Signal Level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l`[1] = PCT line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p`[1] = Virtual trunk facility number.

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`q`[1] = Virtual trunk channel number.

`r`[1] = Camp-on (CAMP) time (15-3600). The test camps-on for the time specified (in seconds), waiting for the required resources to become available, at which time testing may proceed. If the resources do not become available in the specified time, the test is aborted.

`s`[1] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t`[1] = Protection group (PG) number.

`u`[1] = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`v`[1] = Algorithm specified. Valid value(s):

```
13K
G711
EVRC
EVRCB
```

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted, and will be followed by a TST:TRK output message.

`RL` = Retry later. The request has been denied due to the system load. The OP:JOBSTATUS input message can be used to determine if the RL was issued because the maximum number of jobs are active.

5. REFERENCES

Input Message(s):

```
DGN:DFI
DGN:TEN
OP:JOBSTATUS
```

Output Message(s):

```
TST:TRK
```

Input Appendix(es):

```
APP:DIG-TESTS
APP:RANGES
APP:TRANS-TESTS
```

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Other Manual(s):
235-190-115 *Local and Toll System Features*
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*
235-900-113 *Product Specification*

RC/V View(s):
5.1 TRUNK GROUP
14.1 AUTO TRUNK TEST

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TST:UMBIL

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a test (connectivity exercise) of the connection of a host umbilical (UMBIL).

A UMBIL is a host umbilical between a host switching module (HSM) and an RSM. The test does not interfere with stable calls.

2. FORMAT

```
TST:UMBIL=a-b-c;
```

3. EXPLANATION OF MESSAGE

`a` = Host switching module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Remote switching module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Host umbilical (UMBIL) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The message syntax is valid, but the request conflicts with current system or equipment status.

`PF` = Printout follows. A TST:UMBIL output message follows in response to the request.

`RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
RMV:UMBIL
RST:UMBIL
```

Output Message(s):

```
TST:UMBIL
```

Input Appendix(es):

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```
APP:RANGES
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

1740,xxx,yyy (HOST UMBILICALS (1 - 10))
1741,xxx,yyy (HOST UMBILICALS (11 - 20))

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TST:VFL

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests an automatic voice frequency link (VFL) test for a specified common channel signaling (CCS) link.

Each 2.4 or 4.8 kbps CCS link consists of a pair of VFLs; one active and the other standby. When a VFL test is requested for a CCS link, the test will always be run for the standby VFL. The CCS link to test is specified by its group number and member number.

2. FORMAT

```
TST:VFL,GRP=a,MEM=b;
```

3. EXPLANATION OF MESSAGE

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`NG` = No good. The request was unsuccessful because:
- Invalid group number was specified.
- Invalid member number was specified.
- Link is not 2.4 or 4.8 kbps.
- Link is unequipped.
- Link is manual out-of-service.

`PF` = Printout follows. The request has been accepted and an output message will follow.

5. REFERENCES

Output Message(s):

`TST:VFL`

Output Appendix(es):

`APP:RANGES`

MCC Display Page(s):

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CNI FRAME AND CCS STATUS DISPLAY PAGE

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TST:WLINE

Software Release: 5E15 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the continuity of analog lines terminated on the W-card of WNC be tested and printed out.

2. FORMAT

```
TST:WLINE[,DN=a|,LCKEN=b-c-d-e-f|,ALL]
```

3. EXPLANATION OF MESSAGE

`a` = The DN number of the analog line being tested.

`b` = Switching module (SM) number.

`c` = Integrated services line unit (ISLU2) number.

`d` = Line group number.

`e` = Line card number.

`f` = Circuit number.

4. SYSTEM RESPONSE

`RL` = Retry later. May also include:
`- PREVIOUS TEST STILL RUNING`

`PF` = Printout follows. The request has been accepted and is followed by an TST:WLINE output message.

5. REFERENCES

Output Message(s):

Output Appendix(es):

Other Manual(s):
230-701-100 *Air Extension^{SM} Reference Guide*
235-701-120 *Air Extension^{SM} User Guide*

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TST:WSAUTO

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests trunk and line work station (TLWS) automatic tests. The line or trunk to be tested must have been seized using the CONN:WSLINE, CONN:WSTRK, or CONN:WSIC input messages.

Note: This input message is the message interface between the line/trunk testing software and the TLWS numeric menu options (refer to MCC display page 160). Except for a request to remove a port from service (RST) or perform an utility call trace (UCT) the port being tested at the TLWS test position is released prior to performing the requested test. The test results from this input message are displayed only on the receive-only printer (ROP) Direct entry of this input message is not recommended. Instead, use the TLWS menu options or one of the following input messages: DGN:AIULC, DGN:TEN, DGN:ISLULC, DGN:ISLULCKT, EXC:LIT, EXC:ALE, RMV:LINE, RMV:TRK, RST:LINE, RST:TRK, TRC:UTIL, TST:DSL, or TST:TRK.

Format 1 runs the line insulation test (LIT) and diagnostics.

Format 2 is used to remove or restore the port to service. A remove from service request does not release the port from the test position.

Format 3 performs tests on digital subscriber lines (DSL).

Format 4 runs an automatic test call on a trunk.

Format 5 generates an automatic line evaluation report.

Format 6 generates an UCT on the port seized or camped on at the test position. The call trace is performed without releasing the port from the test position.

2. FORMAT

```
[1]    TST:WSAUTO,TP=a,{LIT|DGN};

[2]    TST:WSAUTO,TP=a,{RMV|RST}[,e][,UCL];

[3]    TST:WSAUTO,TP=a,TSTDSL[,CHAN=e|ALL][,TERM=f][,TEST=k[-o]]
       [,DUR=g][,BLKSZ=h][,MODE=i][,ABER=j][,PS][,UCL][,V];

[4]    TST:WSAUTO,TP=a,TSTTRK[,TYPE=c][,OPD=d][,DUR=g][,BLKSZ=h];

[5]    TST:WSAUTO,TP=a,ALE=l,m[,n];

[6]    TST:WSAUTO,TP=a,UCT;
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of

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acronyms shown in the format.

`ALL` = Run the test on all the channels of the DSL.

`PS` = Run a loop-back test on a packet switched channel, or on a channel used to support on-demand packet switching using the assigned PH. The CHAN parameter is mandatory for this test to be executed.

`UCL` = When used with RST, restore the selected trunk or line unconditionally; do not run diagnostic tests.

When used with TSTDSL on a selected *ANSI*® U-DSL, execute the test unconditionally and do not interrupt when the NT1 goes into test mode.

`V` = Output all intermediate test results (that is, output is verbose). This option is useful when performing CRC or fault sectionalization tests.

`a` = TLWS test position (TP) number.

`c` = Type of automatic trunk test to be run (transmission and operation tests are available as listed below). If no test is specified, the office-defined default operational test type for the trunk group is run, if one exists.

Transmission tests (also, refer to Exhibit A of the TST:TRK message). Valid value(s):

`100` = Balance.
`102` = Milliwatt.
`102LB` = Milliwatt loopback.
`103` = Signal-supervisory test line.
`104` = Transmission measure and voice checking.
`105` = Automatic transmission measuring.
`106` = Far to near loss and near to far loss transmission measurement.
`CONT` = Voice path assurance/continuity test line for common channel signaling (CCS) trunks.
`LBK` = Digital loopback test.
`LBKCSU` = Loopback test at the channel service unit (CSU) interswitch transmission equipment (for packet switching trunks only).
`LBKINV` = Inverted digital loopback test.
`LBKOCU` = Loopback test at the office channel unit (OCU) interswitch transmission equipment (for packet switching trunks only).
`LBKSHT` = Loopback test, for a speech handler trunk, sends the digital bit stream in to the speech handler (SH). The SH sends the bit stream back in the same format. This is valid for speech handler trunks only.
`MANSRCE` = Loopback test, for a packet-switching digital trunk sends the digital bit stream out to the far end switch. The far end switch sends the digital bit stream back in the same format.

Note: The far end switch must manually set the loopback prior to running this test.

Valid for packet switching trunks only.

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Operational tests. Valid value(s):

CTX2	= Phase II Centrex test type.
CTX3	= Phase III Centrex test type.
NSYNC	= Non-synchronous test line.
PERM	= Permanent busy test line.
SXS	= Step-by-step test type.
SYNC	= Synchronous test line.

d = Digits to be outpulsed, which may be specified when the test type is specified. If not specified, the office-defined default digits for the test type are used.

e = Channel (CHAN) of the DSL. Valid value(s):

B1	= Run the test on the B1-channel.
B2	= Run the test on the B2-channel.
D	= Run the test on the D-channel.

f = Termination (TERM) point of the automatic digital subscriber line (DSL) test. Valid value(s):

CUn	= Loopback at a specified BRITE CU. This loopback is valid only for U-DSLs. For *ANSI*® U-DSLs, 'n' = 1 through 6. For AMI U-DSLs, 'n' = 1 through 4.
EXT	= Loopback at an external connection to the far-end office. The digital bit stream is sent out and it is the far-end offices' option to send the bits back in the sent format or in an inverted format.
LT	= Loopback at the line termination. Default value for DSL (DSL only).
NT1	= Loopback at the network termination (NT1). Default value for U-DSL (U-DSL only).
PH	= Loopback in the protocol handler (DSL only).

g = Number of seconds that the automatic digital test will be run. For trunk tests, the duration ranges from 1 - 3600 and defaults to 2 seconds. For DSL tests, the duration ranges from 0 - 3600 and defaults to 20 seconds. If the test duration is 0 and TEST=CRC, only LT reads will be performed and delivered on output. Attempting to run loopback tests for zero duration will result in the test running for 1 second.

h = Number of bits in the blocks to be sent (1 - 64000; default is 56000 for DSLs, 64000 for digital trunks).

i = Mode of TSTDSL test. Valid value(s):

SECT	= Fault sectionalization test. This option requests loopback tests to sectionalize the fault beginning with the TERM specified below. The sectionalization mode of testing is used to automatically isolate the operative/faulty portion of a DSLs digital path or transmission loop. This is accomplished by dividing the path and loop into a finite number of testable sections that are delineated by the available LPBK terminations. The maximum number of test sections possible is 10 for *ANSI*® U-DSLs, 8 for AMI U-DSLs and 3 for T-DSLs.
SEQ	= Digital loopback test in sequential mode. This will result in a loopback test's being performed at the specified loopback point and at every loopback point in toward the switch.

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`j` = Acceptable bit error rate (0 - 9, default 6) for circuit switched loopbacks. The value 1 - 9 is an absolute value of the exponent of the error rate accepted (10^{-1} - 10^{-9}). One presents a less stringent error rate specification. Nine prepresents the most strict error rate. If ABER=0 (valid only with the SECT option) each termination will be tested regardless of the error rate detected.

`k` = Test type of TSTDSL. Valid value(s):

- `CRC` = Corrupt cyclic redundancy check (CRC) test. This test causes CRC errors which will increment the level 1 error counts. This test is valid only on *ANSI*® U-DSL.
- `MSMTCH` = Manual line termination (LT)/network termination (NT) mismatch test. This test detects layer 1 mismatch between the type of U-card and NT or the first BRITE CU. This test is valid only on U-DSL.

`l` = Automatic line evaluation (ALE) session type. Valid value(s):

- `ALL` = All of the below (default).
- `LEVEL1` = Applies to U-DSL layer 1 error counts. For *ANSI*® U-cards, the counts are upstream and downstream block errors (BE), errored seconds (ES) and severe errored seconds (SES). For AMI U-cards, the count is upstream errored seconds.
- `LEVEL2` = Applies to all integrated services digital network (ISDN) protocol channel frame error information.
- `PER` = Applies to the protocol error history for an ISDN protocol channel.

`m` = ALE report/reset option. Valid value(s):

- `REPT` = Retrieve and report the error counts (default).
- `RESET` = Reset the error counts and clear the PER tables. The current values of the error counts will be output before being cleared.
- `SRESET` = Silently reset the error counts. Operates exactly like the RESET option except that current values will not be output.

`n` = Set of level 1 error counts. This option is valid only on *ANSI*® U-DSL. Valid value(s):

- `ALL` = All of above counts.
- `CU` = When the CU option is not followed by a specific channel unit number (that is, CU only), then counts for all populated channel units will be printed. Due to the potential time required to collect data for a CU, this option is only allowed for single port ALE requests.
- `CUn` = Current and previous interval counts stored on a specified BRITE CU ('`n`' is 1 through 6).
- `CURR` = Current hour, interval, and day counts (default).
- `DAY` = Current and previous day counts (except BE).
- `HIST` = Recent interval history (ES only).
- `HOUR` = Current and previous hour counts.
- `INT` = Current and previous interval counts.
- `LCCU` = Current and previous hour counts, and current and previous interval counts on all BRITE CUs.
- `PREV` = Previous hour, interval, and day counts.

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o = If 'k' = CRC, test direction.

The IDCU CRC test is run in one direction at a time and this direction may be a specified value to the CRC parameter. Valid value(s):

DWN = Perform a CRC test using the downstream registers of the LT on the U-DSL, reporting only downstream PM results on output.

UP = Perform a CRC test using the upstream registers of the LT on the U-DSL, reporting only upstream PM results on output.

The test direction values are not used by RISLU/ISLU DSLs, as these DSLs always run the CRC test in both directions.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK = Good. The remove of the port from service was performed.

PF = Printout follows.

5. REFERENCES

Input Message(s):

```
CONN:WSIC
CONN:WSLINE
CONN:WSTRK
DGN:AIULC
DGN:ISLULC
DGN:ISLULCKT
DGN:TEN
EXC:ALE
EXC:LIT
RLS:WSTST
RMV:LINE
RMV:TRK
RST:LINE
RST:TRK
SET:WSPOS
TRC:UTIL
TST:DSL
TST:TRK
```

Output Message(s):

```
DGN:AIULC
DGN:ISLULC
DGN:ISLULCKT
DGN:TEN
```

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```
EXC:ALE
EXC:LIT
RST:LINE
RST:TRK
TST:TRK
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RC/V View(s):

14.1 (AUTO TRUNK TEST)

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TST:WSCPE

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a test of customer premises equipment (CPE) connected to a digital subscriber line (DSL) at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line input message. A TP must be selected before requesting the test. Refer to the SET:WSPOS input message.

Note: This input message is the message interface between the line/trunk testing software and the TLWS numeric menu options (refer to the MCC Display Page 160). The test results from this input message are displayed on a TLWS screen and are not printed on the ROP. Direct input of this message is not allowed. Instead, use the TST:DSL input message for testing.

The RMV and RST tests can be run on custom multi-point (MP) and standard interface CPEs. (However, FIP CPE on custom MP interface must be able to respond to a MIM end-point service message which notifies the CPE of a service state change).

2. FORMAT

```
[1]    TST:WSCPE,TP=a,TEST={CPE|PRINT|REFRESH|USPID};

[2]    TST:WSCPE,TP=a,TEST={RMV|RST},CPE=b;

[3]    TST:WSCPE,TP=a,TEST=LPBK,CPE=b,BLKSZ=c,CHAN=d[,PS];
```

3. EXPLANATION OF MESSAGE

`PS` = Indicates a loopback test to be run a packet switched channel.

`TEST` = Type of test request. Valid value(s):

`CPE`	= Display the CPE information on the TLWS screen.
`LPBK`	= Interactive digital test with a loopback established at the CPE (valid only for CPE that support testing).
`PRINT`	= Print the CPE information, along with information about CPE provisioned for service on the DSL, but not currently connected.
`REFRESH`	= Refresh the TLWS screen display.
`RMV`	= Remove a CPE from service.
`RST`	= Restore a CPE to service.
`USPID`	= Display the user service profile identifier (USPID) on the TLWS screen.

`WSCPE` = Work station customer premises equipment (CPE).

`a` = TLWS TP number.

`b` = The CPE number as displayed on the TLWS screen.

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`c` = Number of bits in the blocks (block size, BLKSZ) to be sent.

`d` = Channel of the DSL (B1, B2, or ANY). 'ANY' causes the first valid B-channel available to be used for the test.

4. SYSTEM RESPONSE

Hardware and resource errors that occur after a TLWS message has been accepted are displayed on the TLWS menu screen.

`IP` = In progress.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses. If this message is attempted as direct input, the error response "`DIRECT INPUT NOT ALLOWED, USE TST:DSL`" will be displayed.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
OP:CPE
RLS:WSTST
RMV:CPE
RST:CPE
SET:WSPOS
TST:DSL
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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TST:WSDGTL

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests digital testing on the port seized at the trunk and line work station (TLWS) test position (TP).

2. FORMAT

```
TST:WSDGTL,TP=a[,TERM=b][,BLKSZ=d][,CHAN=e][,TESTEQ=f][,PS][,USERDEF]
[,UCL];
```

3. EXPLANATION OF MESSAGE

`CHAN` = Channel.

`PS` = Run a packet type test. This parameter is not necessary when running tests on channels with permanent circuit or packet service, because the test type can be determined internally according to the channel provisioning. However, this parameter must be specified to run a packet test on on-demand packet (ODP) channels (default test type for ODP channels is circuit).

`TERM` = Termination point.

`TESTEQ` = Information pertaining to the test equipment being used in the testing.

`UCL` = Do not interrupt the test when the NT1 goes to test mode. This option applies only on *ANSI*® U-DSL.

`USERDEF` = Run the digital test using the user-defined defaults. If no defaults have been previously set for the test position, the system defaults are used.

`a` = TLWS TP number.

`b` = Termination point for the loopback. Valid value(s):

- `CUc` = Loopback point is a specified basic rate interface transmission extension (BRITE) channel unit (CU). Only valid on U-DSLs. For *ANSI*® U-DSLs, c = 1 through 6. For AMI U-DSLs, c = 1 through 4.
- `EXT` = Loopback is an external connection to the terminal. The digital bit stream is sent out, and it is the terminal's option to send the bits back in the sent format or in an inverted format.
- `LBK` = Loopback test, for a digital trunk, sends the digital bit stream out to the far end office. The far end office sends the bit stream back in the same format. (digital trunks only)
- `LBKCSU` = Loopback test, for a packet-switching digital trunk, sends the digital bit stream out to the channel service unit (CSU). The CSU sends the bit stream back in the same format. Valid for packet switching trunks only.
- `LBKINV` = Loopback test, for a digital trunk, sends the digital bit stream out to the far end office. The far end office sends the bit stream back in the inverted format.

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(digital trunks only)

`LBKOCU` = Loopback test, for a packet-switching digital trunk, sends the digital bit stream out to the office channel unit (OCU). The OCU sends the bit stream back in the same format. Valid for packet switching trunks only.

`LBKSHT` = Loopback test, for a speech handler trunk, sends the digital bit stream in to the speech handler (SH). The SH sends the bit stream back in the same format. Valid for speech handler trunks only.

`LT` = Loopback point is a physical loopback in the line card. Default value for the digital subscriber line (DSL). (DSL only)

`MANSINK` = Sets a loopback for a loopback test originated by the far end switch. When the far end switch sends a digital bit stream, the *5ESS®* switch sends the digital bit stream back in the same format. Note: Block size entered is irrelevant when this termination is used. Valid for packet switching trunks only.

`MANSRCE` = Loopback test, for a packet-switching digital trunk sends the digital bit stream out to the far end switch. The far end switch sends the digital bit stream back in the same format. Note: the far end switch must manually set the loopback prior to running this test. Valid for packet switching trunks only.

`NT1` = Loopback point is a physical loopback at the network termination (NT1). Default value for U-DSL. (U-DSL only)

`PH` = Loopback point is in the protocol handler. (DSL only)

`d` = Number of bits in the blocks to be sent (1 - 64000, Default: 56000).

`e` = Channel of the DSL (valid for DSLs only). Valid value(s):

`ALL` = Run the test on all the channels of the DSL.

`B1` = Run the test on the B1-channel.

`B2` = Run the test on the B2-channel.

`D` = Run the test on the D-channel.

`f` = Channel of the DSL for which information pertaining to the test equipment being used in the testing is displayed. Valid value(s):

(default).

`B1` = Display the B1-channel test equipment information.

`B2` = Display the B2-channel test equipment information.

`D` = Display the D-channel test equipment information.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

`RL` = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

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5. REFERENCES

Input Message(s):

```
CONN:WSIC
CONN:WSLINE
CONN:WSTRK
SET:WSPOS
TST:DSL
TST:TRK
```

Output Message(s):

```
TST:DSL
TST:TRK
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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TST:WSMEAS

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests to measure signal characteristics in a transmission test on the line or trunk that was seized at the trunk and line work station (TLWS) test position (TP).

Note: If the TLWS talk and monitor (T&M) phone is not busy, it is automatically brought into the connection. During measurements the phone is in the MONITOR mode.

2. FORMAT

```
TST:WSMEAS,TP=a[,TEST=b][,ST];
```

3. EXPLANATION OF MESSAGE

`ST` = Send tone simultaneous with the measurement. Sending a simultaneous tone is only allowed for the following measurement types: BBAND, L1, L2, L4, NOISE, and NWT. The tone is sent over the port at the frequency and level stored for the test position using the SET:WSFREQ input message.

`a` = TLWS TP number.

`b` = Type of measurement. Valid value(s):

`BBAND`	= Broadband level.
`ERL`	= Echo-return loss.
`L4`	= Level at 404 Hz.
`L1`	= Level at 1004 Hz.
`L2`	= Level at 2804 Hz.
`MEASURE`	= Composite measure at BBAND, 404 Hz, 1004 Hz and 2804 Hz with the results being the largest measurement response. This is the default test.
`NOISE`	= Far-to-near noise level.
`NWT`	= Far-to-near level at 1004 Hz, -16 db.
`SRL`	= Singing return loss.
`SRLHI`	= Singing return loss, high.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

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5. REFERENCES

Input Message(s):

```
CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSPOS
STP:WSTST
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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TST:WSMET

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests testing the metallic characteristics of the line or trunk attached to a trunk and line work station (TLWS) test position (TP).

Note: If the TLWS talk & monitor (T&M) phone is not busy, it is automatically brought into the connection. During metallic measurements the phone is in the ON HOLD state, so as not to interfere with the measurements.

2. FORMAT

```
TST:WSMET,TP=a[,TEST=b;][,testeq=c;][,offtest=d;]
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

`b` = Type of metallic measurement test. Valid value(s):

`ALL`	= Perform voltage, resistance, and capacitance tests.
`C`	= Perform capacitance test.
`CC`	= Perform collect coin test (DCTU on coin only).
`DC`	= Perform detect coin test (DCTU on coin only).
`DIST`	= Perform distance to open test (line only).
`HT`	= Perform home totalizer test (DCTU on coin only).
`OFKT`	= Perform SLIM Off-hook test (SLIM on analog line only).
`PGTC`	= Add the pair gain test controller into the metallic connection for testing universal-*SLC*® (U-SLC) ports (DCTU only).
`R`	= Perform resistance test.
`RC`	= Perform return coin test (DCTU on coin only).
`RINGER`	= Perform ringer count test (DCTU on line only).
`SHORT`	= Perform monitor for short test.
`V`	= Perform voltage test.

`c` = Type of metallic test equipment. Valid value(s):

`DCTU`	= Directly connected test unit.
`SLIM`	= Subscriber line and measurement.

`d` = Type of SLIM off-hook test. Valid value(s):

`DIALPULSE`	= Perform dial speed abd pulse test.
`FLASH`	= Perform duration test hook flash.
`KEYTONE`	= Perform keytone test.
`LOOPRES`	= Perform offhook loop resistance test.

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RING = Perform ring line test (default).

4. SYSTEM RESPONSE

IP = In progress.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSPOS
TST:WSMNTR

Output Appendix(es):

APP:TLWS

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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TST:WSMNTR

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests MONITOR access to either a busy or idle port at the trunk and line work station (TLWS) test position (TP), depending on the mode option chosen in the input message.

The TLWS talk & monitor (T&M) phone must be available for use with this connection. It is in the MONITOR state for the connection.

2. FORMAT

```
TST:WSMNTR,TP=a[,MODE=b];
```

3. EXPLANATION OF MESSAGE

`a` = TLWS TP number.

`b` = Mode for the MONITOR function. Valid value(s):

- `BUSY` = The user can monitor audio only on a busy line/trunk.
- `IDLE` = The user can monitor audio on either a busy or idle line/trunk. In addition to monitoring, this mode will display the dialed digits and signals/tones sent or received by the switch.

4. SYSTEM RESPONSE

`IP` = In progress.

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

```
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSPOS
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):

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235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RC/V View(s):

14.3 (TRUNK AND LINE WORK STATION)

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TST:WSSEND

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a tone be sent over, or a termination be applied to, the port currently seized at the trunk and line station (TLWS) test position (TP).

Note: If the TLWS talk and monitor (T&M) phone is not busy, it is automatically brought into the connection. During sending of tone, it is in the MONITOR mode.

2. FORMAT

```
[1]    TST:WSSEND,TP=a,SEND[,FREQ=b][,LVP=c|,LVN=d];

[2]    TST:WSSEND,TP=a[,TEST=e];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = TLWS TP number.

`b` = Frequency in hertz (0 - 4000). If not specified, the user defined value set with the SET:WSFREQ input request will be used.

`c` = Level in positive tenths of db of the tone (0-30) (for example, +2.4 dbm is specified as 24). If not specified, the user defined value set with the SET:WSFREQ input request is used.

`d` = Level in negative tenths of a db of the tone (0 - 480) (for example, -24 dbm is specified as 240). If not specified, the user defined value set with the SET:WSFREQ input request is used.

`e` = Test to be run.

- `OPEN` = Open termination: applies only to analog trunks; supervision is not monitored.
- `QUIET` = Quiet termination: applies to both lines and trunks; supervision is monitored during the quiet interval.
- `SEND` = Send tone at frequency and level stored for the TLWS TP. The SET:WSFREQ input request is used to store the frequency and level. This is the default test.

4. SYSTEM RESPONSE

`IP` = In progress.

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NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSFREQ
SET:WSPOS
TST:WSMNTR

Output Appendix(es):

APP:TLWS

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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TST:WSSUPV-A

Software Release: 5E15 - 5E16(1)
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that supervision characteristics of the line or trunk be tested at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line, trunk, or incoming call input message. A TP must be selected before requesting the test. Refer to the SET:WSPOS input message.

Format 1 is used to initiate a specific supervision test on a line or trunk [except for recorded announcement function (RAF) or service announcement system (SAS)]. Format 2 is used to play a single phrase or all phrases on a recorded announcement port. Format 2 can also be used to play a range of phrases (playing a range of phrases applies only to a SAS). Format 3 is used to play a complete announcement or execute a dial-through announcement test on a RAF or SAS port.

2. FORMAT

```
[1]    TST:WSSUPV,TP=a,TEST=b;

[2]    TST:WSSUPV,TP=a,TEST=PHRASE,PHRASE=c[&&h][,TIME=i];

[3]    TST:WSSUPV,TP=a,TEST={ANN|DTA},APPL=d,HANN=e,TANN=f,INFL=g,ANNCSET=j[,TIME
       =i];
```

3. EXPLANATION OF MESSAGE

`ANN` = Play an announcement [digital service unit 2 - recorded announcement function (DSU2-RAF) or SAS port only].

`DTA` = Dial-through announcement test (DSU2-RAF or SAS port only).

`PHRASE` = Play phrase(s) (DSU2-RAF or SAS port only).

`a` = TLWS TP number.

`b` = Test options. Valid value(s):

- `CCOR` = Coin collect and operator released signal test (incoming operator trunk only).
- `CNCL` = Coin collect signal test (incoming operator trunk only).
- `CNDT` = Coin detect (line only).
- `CNRT` = Coin return signal test (incoming operator trunk only).
- `DSEC` = Disable echo canceler (trunk only).
- `ENEC` = Enable echo canceler (trunk only).
- `HMTO` = Home totalizer (line only).
- `MSMTCH` = Network termination 1 (NT1) mismatch test (U-card only).
- `OFF` = Trunk off-hook (trunk only).
- `ON` = Trunk on-hook (non-common channel signaling [CCS] trunk only). For CCS7 trunks a release (REL) message is sent to the far end.
- `OPAT` = Operator attached signal test (incoming operator trunk only).

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OPRL = Operator released signal test (incoming operator trunk only).
PPTONE = Defense switch network (DSN) preemption tone (DSN office only).
QWINK = Quick wink test (trunk only).
RING = Ring line (line only).
RNGBK = Ringback test (trunk only).
ROH = Receiver off-hook (line only).
SHLB = Set up a loopback at the speech handler [speech handler trunk (SHT) only].
SHUNLB = Tear down a loopback at the speech handler (SHT only).
WINK = Wink test (trunk only).

c = Phrase number (0-65535) for RAF, 0 plays all phrases. For SAS this is the low range (0-65530).

d = Announcement application (APPL). Valid value(s):
2LVL = LASS 2-level activation.
ACSR = Automatic customer station rearrangement.
L2 = Non-English Language 2 for OSPS.
L3 = Non-English Language 3 for OSPS.
L4 = Non-English Language 4 for OSPS.
L5 = Non-English Language 5 for OSPS.
L6 = Non-English Language 6 for OSPS.
L7 = Non-English Language 7 for OSPS.
LASS = LASS screen list editing.
OSPSDA = Operator Services Position System (OSPS) directory assistance.
OSPSTA = OSPS toll and assistance.
PVN = Private virtual network custom announcements.
RAS = Remote access service.

e = Header announcement (HANN) ID (0-65535).

f = Trailer announcement (TANN) ID (0-65535).

g = Inflection (INFL) ID (0-255).

h = Phrase number high range (SAS only) (1-65530) .

i = Time to wait for announcement or phrase playback (SAS only) (15-60) minutes.

j = Alternate Announcement Set (ANNCSET) ID (0-1022).

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK = Good.

5. REFERENCES

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Input Message(s):

```
CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSPOS
TST:WSMNTR
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

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TST:WSSUPV-B

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that supervision characteristics of the line, trunk or signaling data link (SDL) be tested at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line, trunk, SDL port, or incoming call input message. A TP must be selected before requesting the test. Refer to the SET:WSPOS input message.

Format 1 is used to initiate a specific supervision test on a line, trunk or SDL port [except for recorded announcement function (RAF) or service announcement system (SAS)]. When a loopback test is set on an SDL port, the CCS link associated with the SDL port should be deactivated first and the status of the SDL port should be in service (IS).

The DUR in Format 1 is only valid when to set the loopback for an SDL port. When the duration is timed out or there is an interruption after the loopback is set, the loopback is cleared automatically for that SDL port. Also the testing resource associated with TLWS identifier (ID) number in 161,<TP>,<ID> poke is not applicable to set the loopback on an SDL port even if an ID is entered.

Format 2 is used to play a single phrase or all phrases on a recorded announcement port. Format 2 can also be used to play a range of phrases (playing a range of phrases applies only to a SAS).

Format 3 is used to play a complete announcement or execute a dial-through announcement test on a RAF or SAS port.

2. FORMAT

```
[1]    TST:WSSUPV,TP=a,TEST=b[,DUR=k];
       ____________________________________________________________

[2]    TST:WSSUPV,TP=a,TEST=PHRASE,PHRASE=c[&&h][,TIME=i];
       ____________________________________________________________

[3]    TST:WSSUPV,TP=a,TEST={ANN|DTA},APPL=d,HANN=e,TANN=f. . .
       . . .,INFL=g,ANNCSET=j[,TIME=i];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`ANN` = Play an announcement [digital service unit 2 - recorded announcement function (DSU2-RAF) or SAS port only].

`DTA` = Dial-through announcement test (DSU2-RAF or SAS port only).

`PHRASE` = Play phrase(s) (DSU2-RAF or SAS port only).

`a` = TLWS TP number.

`b` = Test options. Valid value(s):

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CCOR	= Coin collect and operator released signal test (incoming operator trunk only).
CLRLBK	= Tear down a loopback at the speech handler trunk (SHT) or SDL port only.
CNCL	= Coin collect signal test (incoming operator trunk only).
CNDT	= Coin detect (line only).
CNRT	= Coin return signal test (incoming operator trunk only).
DSEC	= Disable echo canceler (trunk only).
ENEC	= Enable echo canceler (trunk only).
HMTO	= Home totalizer (line only).
MSMTCH	= Network termination 1 (NT1) mismatch test (U-card only).
OFF	= Trunk off-hook (trunk only).
ON	= Trunk on-hook [non-common channel signaling (CCS) trunk only]. For CCS7 trunks a release message is sent to the far end.
OPAT	= Operator attached signal test (incoming operator trunk only).
OPRL	= Operator released signal test (incoming operator trunk only).
PPTONE	= Defense switch network (DSN) preemption tone (DSN office only).
QWINK	= Quick wink test (trunk only).
RING	= Ring line (line only).
RNGBK	= Ringback test (trunk only).
ROH	= Receiver off-hook (line only).
SETLBK	= Set up a loopback at the speech handler SHT trunk or SDL port only.
WINK	= Wink test (trunk only).

c = Phrase number (0-65535) for RAF, 0 plays all phrases. For SAS this is the low range (0-65530).

d = Announcement application (APPL). Valid value(s):

2LVL	= LASS 2-level activation.
ACSR	= Automatic customer station rearrangement.
L2	= Non-English language 2 for OSPS.
L3	= Non-English language 3 for OSPS.
L4	= Non-English language 4 for OSPS.
L5	= Non-English language 5 for OSPS.
L6	= Non-English language 6 for OSPS.
L7	= Non-English language 7 for OSPS.
LASS	= LASS screen list editing.
OSPSDA	= Operator Services Position System (OSPS) directory assistance.
OSPSTA	= OSPS toll and assistance.
PVN	= Private virtual network custom announcements.
RAS	= Remote access service.

e = Header announcement (HANN) ID (0-65535).

f = Trailer announcement (TANN) ID (0-65535).

g = Inflection (INFL) ID (0-255).

h = Phrase number high range (SAS only) (1-65530) .

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`i` = Time to wait for announcement or phrase playback (SAS only) (15-60) minutes.

`j` = Alternate announcement set (ANNCSET) ID (0-1022).

`k` = Duration to set the loopback for a SDL port in seconds (1-3600). Default is 30 seconds.

4. SYSTEM RESPONSE

`NG` = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

`OK` = Good.

5. REFERENCES

Input Message(s):

```
CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSPOS
TST:WSMNTR
```

Output Appendix(es):

```
APP:TLWS
```

Other Manual(s):
235-100-125 *System Description*
235-105-110 *System Maintenance Requirements and Tools*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
160 TRUNK & LINE MAINT

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81. UPD

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UPD:APPLY-BYTER-A

Software Release: 5E16(2) - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a byte replacement update associated with a software update. BYTER writes into sequential memory locations in processes.

Format 1 is used for administrative module (AM) updates only. Format 2 is used for switching module (SM), communications module processor (CMP) or peripheral updates. Format 3 is used for updates that require the existence of the pathlist file to determine where the update is to be applied.

WARNING: This message overwrites data in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=AM,ADDR=d,DATA=e,. . .
       . . .OLDDATA=f[,UCL][,WTIME="h"];
       _____________________________________________________________

[2]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=c,PACKINFO="g",. . .
       . . .[,UCL][,DF="j"];
       _____________________________________________________________

[3]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="g". . .
       . . .DF="j"[,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update. This can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

`b` = The name of the file to be changed, specified by the pathname '`b`'. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname.

`c` = The processor to receive the update. Valid value(s):

`AMPATH`	= Office specific update in the AM.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access
`DNUSCC`	= Digital networking unit - synchronous optical network (SONET) (DNU-S)

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	common control.
DNUSTMX	= Transmission multiplexer.
DSC3	= Digital service circuit - model 3.
DSP13K	= 8K digital signal processor for code division multiple access (CDMA) protocol handler for voice.
DSP8K	= 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC	= EVRC digital signal processor for CDMA protocol handler for voice.
GDSF	= Global digital services function - model 3.
HDSU	= Hardware digital service unit.
HSAS	= Service announcement system diagnostic image.
IDCUCCP	= Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP22	= PH22 common input/output processor (IOP) image.
IP3S	= PH3 CCS IOP image.
IP4F	= Frame relay PH4 IOP image.
IP4I	= ISDN PH4 IOP image.
IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) image.
MHEIB	= Switching module processor message handler EIB (MHEIB) image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler *PowerPC*® (MHPPC) image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit (OIU) - 24 channels.
OIUIP	= Optical interface unit - internet protocol (IP).
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.

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PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 *PowerPC*® upgrade.
V3DACP	= ACELP digital signal processor (DSP) for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = The starting address (in decimal) of the overwrite, which must be on a word boundary.

e = The overwrite that will be placed at starting address 'd'. Each overwrite must be four bytes long. A list of up to 32 overwrites may be entered. The order they are entered is the order in which they will be written into the file, 'b'.

f = Expected contents of the locations to be overwritten. Old contents must be given for every overwrite entered. The order they are entered will be the order they are compared to the contents in the file 'b', starting at address 'd'.

g = Name of the PACKINFO file. Double quotes (" ") are required.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

j = The pathname of the dependent file to be changed. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname. Double quotes (" ") are required.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

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5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-BYTER-B

Software Release: 5E16(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a byte replacement update associated with a software update. BYTER writes into sequential memory locations in processes.

Format 1 is used for administrative module (AM) updates only. Format 2 is used for switching module (SM), communications module processor (CMP) or peripheral updates. Format 3 is used for updates that require the existence of the pathlist file to determine where the update is to be applied.

WARNING: This message overwrites data in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=AM,ADDR=d,DATA=e,. . .
       . . .OLDDATA=f[,UCL][,WTIME="h"];
       _____________________________________________________________

[2]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=c,PACKINFO="g",. . .
       . . .[,UCL][,DF="j"];
       _____________________________________________________________

[3]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="g". . .
       . . .DF="j"[,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update. This can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

`b` = The name of the file to be changed, specified by the pathname '`b`'. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname.

`c` = The processor to receive the update. Valid value(s):

`AMPATH`	= Office specific update in the AM.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access
`DNUSCC`	= Digital networking unit - synchronous optical network (SONET) (DNU-S)

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	common control.
DNUSTMX	= Transmission multiplexer.
DSC3	= Digital service circuit - model 3.
DSP13K	= 8K digital signal processor for code division multiple access (CDMA) protocol handler for voice.
DSP8K	= 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC	= EVRC digital signal processor for CDMA protocol handler for voice.
GDSF	= Global digital services function - model 3.
HDSU	= Hardware digital service unit.
HSAS	= Service announcement system diagnostic image.
IDCUCCP	= Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP22	= PH22 common input/output processor (IOP) image.
IP3S	= PH3 CCS IOP image.
IP4F	= Frame relay PH4 IOP image.
IP4I	= ISDN PH4 IOP image.
IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) image.
MHEIB	= Switching module processor message handler EIB (MHEIB) image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler power PC (MHPPC) image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit - 24 channels.
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.

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PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
V3DACP	= ACELP digital signal processor (DSP) for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = The starting address (in decimal) of the overwrite, which must be on a word boundary.

e = The overwrite that will be placed at starting address 'd'. Each overwrite must be four bytes long. A list of up to 32 overwrites may be entered. The order they are entered is the order in which they will be written into the file, 'b'.

f = Expected contents of the locations to be overwritten. Old contents must be given for every overwrite entered. The order they are entered will be the order they are compared to the contents in the file 'b', starting at address 'd'.

g = Name of the PACKINFO file. Double quotes (" ") are required.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

j = The pathname of the dependent file to be changed. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname. Double quotes (" ") are required.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

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Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-BYTER-C

Software Release: 5E16(2) - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a byte replacement update associated with a software update. BYTER writes into sequential memory locations in processes.

Format 1 is used for administrative module (AM) updates only. Format 2 is used for switching module (SM), communications module processor (CMP) or peripheral updates. Format 3 is used for updates that require the existence of the pathlist file to determine where the update is to be applied.

WARNING: This message overwrites data in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=AM,ADDR=d,DATA=e,. . .
       . . .OLDDATA=f[,UCL][,WTIME="h"];
       _____________________________________________________________

[2]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=c,PACKINFO="g",. . .
       . . .[,UCL][,DF="j"];
       _____________________________________________________________

[3]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="g". . .
       . . .DF="j"[,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update. This can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

`b` = The name of the file to be changed, specified by the pathname '`b`'. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname.

`c` = The processor to receive the update. Valid value(s):

`AMPATH`	= Office specific update in the AM.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access
`DNUSCC`	= Digital networking unit - synchronous optical network (SONET) (DNU-S)

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	common control.
DNUSTMX	= Transmission multiplexer.
DSC3	= Digital service circuit - model 3.
DSP13K	= 8K digital signal processor for code division multiple access (CDMA) protocol handler for voice.
DSP8K	= 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC	= EVRC digital signal processor for CDMA protocol handler for voice.
GDSF	= Global digital services function - model 3.
HDSU	= Hardware digital service unit.
HSAS	= Service announcement system diagnostic image.
IDCUCCP	= Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP22	= PH22 common input/output processor (IOP) image.
IP3S	= PH3 CCS IOP image.
IP4F	= Frame relay PH4 IOP image.
IP4I	= ISDN PH4 IOP image.
IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) image.
MHEIB	= Switching module processor message handler EIB (MHEIB) image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler *PowerPC*® (MHPPC) image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit (OIU) - 24 channels.
OIUIP	= Optical interface unit - internet protocol (IP).
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.

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PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 *PowerPC*® upgrade.
V3DACP	= ACELP digital signal processor (DSP) for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = The starting address (in decimal) of the overwrite, which must be on a word boundary.

e = The overwrite that will be placed at starting address 'd'. Each overwrite must be four bytes long. A list of up to 32 overwrites may be entered. The order they are entered is the order in which they will be written into the file, 'b'.

f = Expected contents of the locations to be overwritten. Old contents must be given for every overwrite entered. The order they are entered will be the order they are compared to the contents in the file 'b', starting at address 'd'.

g = Name of the PACKINFO file. Double quotes (" ") are required.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

j = The pathname of the dependent file to be changed. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname. Double quotes (" ") are required.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

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5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-BYTER-D

Software Release: 5E18(1) - 5E19(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a byte replacement update associated with a software update. BYTER writes into sequential memory locations in processes.

Format 1 is used for administrative module (AM) updates only. Format 2 is used for switching module (SM), communications module processor (CMP) or peripheral updates. Format 3 is used for updates that require the existence of the pathlist file to determine where the update is to be applied.

WARNING: This message overwrites data in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=AM,ADDR=d,DATA=e,. . .
       . . .OLDDATA=f[,UCL][,WTIME="h"];
       _____________________________________________________________

[2]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=c,PACKINFO="g",. . .
       . . .[,UCL][,DF="j"];
       _____________________________________________________________

[3]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="g". . .
       . . .DF="j"[,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`nnnn`	= The sequence number identifying the software update.
`rr`	= The release number [for example, 18 for 5E18(1)].
`yy`	= The last two digits of the year issued,

NOTE: Double quotes (" ") are required.

`b` = The name of the file to be changed, specified by the pathname '`b`'. Refer to the Routine

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Operations and Maintenance manual for definitions of file and pathname.

c = The processor to receive the update. Valid value(s):

- AMPATH = Office specific update in the AM.
- CMP = Communication module processor.
- DDMA = Diagnostic direct memory access
- DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- DNUSTMX = Transmission multiplexer.
- DSC3 = Digital service circuit - model 3.
- DSP13K = 8K digital signal processor for code division multiple access (CDMA) protocol handler for voice.
- DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
- DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
- GDSF = Global digital services function - model 3.
- HDSU = Hardware digital service unit.
- HSAS = Service announcement system diagnostic image.
- IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
- IDCUDLP = IDCU data link processor.
- IDCULSI = IDCU loop side interface.
- IP22 = PH22 common input/output processor (IOP) image.
- IP3S = PH3 CCS IOP image.
- IP4F = Frame relay PH4 IOP image.
- IP4I = ISDN PH4 IOP image.
- IP4IF = ISDN frame relay PH4 IOP image.
- ISLU = Integrated services line unit.
- ISLU2 = Integrated services line unit 2.
- ISTF = Integrated services test function.
- LDSU = Local digital service unit.
- LDSF = Local digital services function - model 3.
- MH32 = Switching module processor message handler 32 (MH32) image.
- MHEIB = Switching module processor message handler EIB (MHEIB) image.
- MHLB = Switching module processor MH little boot image.
- MHPPC = Switching module processor message handler PowerPC\(rg (MHPPC) image.
- MHPPCLB = Switching module processor MHPPC little boot image.
- MSGH = Message handler.
- ODMA = Operational direct memory access.
- OIOP = Operational input/output processor.
- OIU24 = Optical interface unit (OIU) - 24 channels.
- OIUIP = Optical interface unit - internet protocol (IP).
- PH2A = Protocol handler 2 (PH2) ACCESS application processor (AP) image.
- PH2G = PH2 GATEWAY AP image.
- PH22I = PH22 wireless ISDN AP image.
- PH22S = PH22 signaling AP image.
- PH3C = PH3 COMMON AP image.
- PH3S = PH3 CCS AP image.
- PH4A = PH4 access AP image.
- PH4G = PH4 gateway AP image.
- PH4I = PH4 ISDN AP image.

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PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
PHV6C	= PHV6 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 PowerPC\(rg upgrade.
V3DACP	= ACELP digital signal processor (DSP) for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K + EVRC DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = The starting address (in decimal) of the overwrite, which must be on a word boundary.

e = The overwrite that will be placed at starting address 'd'. Each overwrite must be four bytes long. A list of up to 32 overwrites may be entered. The order they are entered is the order in which they will be written into the file, 'b'.

f = Expected contents of the locations to be overwritten. Old contents must be given for every overwrite entered. The order they are entered will be the order they are compared to the contents in the file 'b', starting at address 'd'.

g = Name of the PACKINFO file. Double quotes (" ") are required.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

j = The pathname of the dependent file to be changed. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname. Double quotes (" ") are required.

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4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-BYTER-E

Software Release: 5E20(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a byte replacement update associated with a software update. BYTER writes into sequential memory locations in processes.

Format 1 is used for administrative module (AM) updates only. Format 2 is used for switching module (SM), communication module 3 (CM3) message switch application processor (CM3MSGSAP), or peripheral updates. Format 3 is used for updates that require the existence of the pathlist file to determine where the update is to be applied.

WARNING: This message overwrites data in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=AM,ADDR=d,DATA=e,. . .
       . . .OLDDATA=f[,UCL][,WTIME="h"];
       _____________________________________________________________

[2]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET=c,PACKINFO="g",. . .
       . . .[,UCL][,DF="j"];
       _____________________________________________________________

[3]    UPD:APPLY:BYTER,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="g". . .
       . . .DF="j"[,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`nnnn`	= The sequence number identifying the software update.
`rr`	= The release number [for example, 18 for 5E18(1)].
`yy`	= The last two digits of the year issued,

NOTE: Double quotes (" ") are required.

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`b` = The name of the file to be changed, specified by the pathname '`b`'. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname.

`c` = The processor to receive the update. Refer to the APP:TARGETS appendix in the Appendixes section of the Input Messages manual.

`d` = The starting address (in decimal) of the overwrite, which must be on a word boundary.

`e` = The overwrite that will be placed at starting address '`d`'. Each overwrite must be four bytes long. A list of up to 32 overwrites may be entered. The order they are entered is the order in which they will be written into the file, '`b`'.

`f` = Expected contents of the locations to be overwritten. Old contents must be given for every overwrite entered. The order they are entered will be the order they are compared to the contents in the file '`b`', starting at address '`d`'.

`g` = Name of the PACKINFO file. Double quotes (" ") are required.

`h` = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when '`b`' is non-killable.

`j` = The pathname of the dependent file to be changed. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname. Double quotes (" ") are required.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Input Appendix(es):

```
APP:TARGETS
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1990 INSTALL BWM

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UPD:APPLY-FILER-A

Software Release: 5E15 only
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a file replacement update associated with a software update. FILER replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, and so forth).

Format 1 is to be used for administrative module (AM) updates only.

Format 2 is to be used for switching module (SM), communications module processor (CMP) or peripheral updates.

Format 4 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=AM,UF="d"[,NREL][,UCL];

[2]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=c,UF="d",DF="e"[,UCL];

[3]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=g,UF="e",DF="f"[,UCL];

[4]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET="AMPATH",UF="d"[,NREL]. . .
       . . .[,UCL];
```

3. EXPLANATION OF MESSAGE

`NREL` = Forces a file replacement of '`b`' by '`d`' when the file types are different in their magic numbers or when one is in common object file format and the other is not.

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes ("") are required.

`b` = Pathname of the file to be replaced. Refer to the Routine Operations and Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

`c` = The processor to receive the update. Valid value(s):

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AMPATH	= Office specific update in the AM.
CMP	= Communication module processor.
DDMA	= Diagnostic direct memory access
DNUSCC	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX	= Transmission multiplexer.
DSC3	= Digital service circuit - model 3.
DSP13K	= 8K digital signal processor for CDMA protocol handler for voice.
DSP8K	= 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC	= EVRC digital signal processor for CDMA protocol handler for voice.
GDSF	= Global digital services function - model 3.
HDSU	= Hardware digital service unit.
HSAS	= Service announcement system diagnostic image.
IDCUCCP	= Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP3S	= Protocol handler 3 CCS OIP image.
IP4F	= Frame relay protocol handler version 4 I/O processor.
IP4I	= PH4I operational input/output processor.
IP4IF	= ISDN Frame Relay protocol handler version 4 I/O processor.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
PH2A	= Protocol handler 2 (PH2) with ACCESS application processor image.
PH2G	= PH2 with GATEWAY application processor image.
PH3C	= Protocol handler 3 (PH3) with COMMON application processor image.
PH3S	= PH3 CCS AP image.
PH4A	= Protocol handler 4 (PH4) access image.
PH4G	= PH4 gateway image.
PH4I	= PH4 with integrated services digital network (ISDN) application processor image.
PHA1A	= Protocol handler for ATM (asynchronous transfer mode).
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice for CDMA (code division multiple access).
PHV3C	= Protocol handler for voice version 3 for CDMA application.
PHV4C	= Protocol handler for voice version 4 for CDMA application.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SMPMH	= Switching module processor message handler (MH) operational image.
SMPMHLB	= Switching module processor MH little boot image.
V3DACP	= ACELP digital signal processor, for TDMA protocol handler for voice.

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V4D13K	= 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K	= 8K DSP, for CDMA protocol handler for voice version 4.
V4DACP	= ACELP DSP, for TDMA protocol handler for voice version 4.
V4DEVR1	= EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4DEVR2	= EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4DEVR3	= EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP	= VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL	= ISLP DSP, for IS41 TDMA protocol handler for data circuit.

d = Name of the source file in the software update package.

e = Pathname of the dependent file to be replaced. Refer to the Operations and Routine Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD:APPLY output message.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-FILER-B

Software Release: 5E16(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a file replacement update associated with a software update. FILER replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, and so forth).

Format 1 is to be used for administrative module (AM) updates only.

Format 2 is to be used for switching module (SM), communications module processor (CMP) or peripheral updates.

Format 4 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=AM,UF="d"[,NREL][,UCL];
       _____________________________________________________________

[2]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=c,UF="d",DF="e"[,UCL];
       _____________________________________________________________

[3]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=g,UF="e",DF="f"[,UCL];
       _____________________________________________________________

[4]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET="AMPATH",UF="d"[,NREL]. . .
       . . .[,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`NREL` = Forces a file replacement of '`b`' by '`d`' when the file types are different in their magic numbers or when one is in common object file format and the other is not.

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

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b = Pathname of the file to be replaced. Refer to the Routine Operations and Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

c = The processor to receive the update. Valid value(s):

- AMPATH = Office specific update in the AM.
- CMP = Communication module processor.
- DDMA = Diagnostic direct memory access
- DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- DNUSTMX = Transmission multiplexer.
- DSC3 = Digital service circuit - model 3.
- DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
- DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
- GDSF = Global digital services function - model 3.
- HDSU = Hardware digital service unit.
- HSAS = Service announcement system diagnostic image.
- IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
- IDCUDLP = IDCU data link processor.
- IDCULSI = IDCU loop side interface.
- IP22 = PH22 common input/output processor (IOP) image.
- IP3S = PH3 CCS IOP image.
- IP4F = Frame relay PH4 IOP image.
- IP4I = ISDN PH4 IOP image.
- IP4IF = ISDN frame relay PH4 IOP image.
- ISLU = Integrated services line unit.
- ISLU2 = Integrated services line unit 2.
- ISTF = Integrated services test function.
- LDSU = Local digital service unit.
- LDSF = Local digital services function - model 3.
- MSGH = Message handler.
- ODMA = Operational direct memory access.
- OIOP = Operational input/output processor.
- OIU24 = Optical interface unit - 24 channels.
- PH2A = Protocol handler 2 (PH2) with ACCESS application processor (AP) image.
- PH2G = PH2 with GATEWAY AP image.
- PH22I = PH22 wireless ISDN AP image.
- PH22S = PH22 signaling AP image.
- PH3C = PH3 with COMMON AP image.
- PH3S = PH3 CCS AP image.
- PH4A = PH4 access AP image.
- PH4G = PH4 gateway AP image.
- PH4I = PH4 with ISDN AP image.
- PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.
- PHA2A = Protocol handler for ATM model 2 AP image.
- PHE2E = Protocol handler for ethernet.
- PI = Packet interface.
- PI2 = Packet interface unit 2.

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PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SMPMH	= Switching module processor message handler (MH) operational image.
SMPMHLB	= Switching module processor MH little boot image.
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = Name of the source file in the software update package.

e = Pathname of the dependent file to be replaced. Refer to the Operations and Routine Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD:APPLY output message.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

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Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-FILER-C

Software Release: 5E16(2) - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a file replacement update associated with a software update. FILER replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, and so forth).

Format 1 is to be used for administrative module (AM) updates only.

Format 2 is to be used for switching module (SM), communications module processor (CMP) or peripheral updates.

Format 4 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=AM,UF="d"[,NREL][,UCL];
       _____________________________________________________________

[2]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=c,UF="d",DF="e"[,UCL];
       _____________________________________________________________

[3]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=g,UF="e",DF="f"[,UCL];
       _____________________________________________________________

[4]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET="AMPATH",UF="d"[,NREL]. . .
       . . .[,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`NREL` = Forces a file replacement of '`b`' by '`d`' when the file types are different in their magic numbers or when one is in common object file format and the other is not.

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

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b = Pathname of the file to be replaced. Refer to the Routine Operations and Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

c = The processor to receive the update. Valid value(s):

- AMPATH = Office specific update in the AM.
- CMP = Communication module processor.
- DDMA = Diagnostic direct memory access
- DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- DNUSTMX = Transmission multiplexer.
- DSC3 = Digital service circuit - model 3.
- DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
- DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
- GDSF = Global digital services function - model 3.
- HDSU = Hardware digital service unit.
- HSAS = Service announcement system diagnostic image.
- IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
- IDCUDLP = IDCU data link processor.
- IDCULSI = IDCU loop side interface.
- IP22 = PH22 common input/output processor (IOP) image.
- IP3S = PH3 CCS IOP image.
- IP4F = Frame relay PH4 IOP image.
- IP4I = ISDN PH4 IOP image.
- IP4IF = ISDN frame relay PH4 IOP image.
- ISLU = Integrated services line unit.
- ISLU2 = Integrated services line unit 2.
- ISTF = Integrated services test function.
- LDSU = Local digital service unit.
- LDSF = Local digital services function - model 3.
- MSGH = Message handler.
- ODMA = Operational direct memory access.
- OIOP = Operational input/output processor.
- OIU24 = Optical interface unit (OIU) - 24 channels.
- OIUIP = Optical interface unit - internet protocol (IP).
- PH2A = Protocol handler 2 (PH2) with ACCESS application processor (AP) image.
- PH2G = PH2 with GATEWAY AP image.
- PH22I = PH22 wireless ISDN AP image.
- PH22S = PH22 signaling AP image.
- PH3C = PH3 with COMMON AP image.
- PH3S = PH3 CCS AP image.
- PH4A = PH4 access AP image.
- PH4G = PH4 gateway AP image.
- PH4I = PH4 with ISDN AP image.
- PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.
- PHA2A = Protocol handler for ATM model 2 AP image.
- PHE2E = Protocol handler for ethernet.
- PI = Packet interface.

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PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 *PowerPC*® upgrade.
SMPMH	= Switching module processor message handler (MH) operational image.
SMPMHLB	= Switching module processor MH little boot image.
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = Name of the source file in the software update package.

e = Pathname of the dependent file to be replaced. Refer to the Operations and Routine Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD:APPLY output message.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
```

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```
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-FILER-D

Software Release: 5E18(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a file replacement update associated with a software update. FILER replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, and so forth).

Format 1 is to be used for administrative module (AM) updates only.

Format 2 is to be used for switching module (SM), communications module processor (CMP) or peripheral updates.

Format 4 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=AM,UF="d"[,NREL][,UCL];
       _____________________________________________________________

[2]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=c,UF="d",DF="e"[,UCL];
       _____________________________________________________________

[3]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=g,UF="e",DF="f"[,UCL];
       _____________________________________________________________

[4]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET="AMPATH",UF="d"[,NREL]. . .
       . . .[,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`NREL` = Forces a file replacement of '`b`' by '`d`' when the file types are different in their magic numbers or when one is in common object file format and the other is not.

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

- `BWM` = Indicates an off-site originated update.
- `CFT` = Indicates an on-site originated update.
- `TMP` = Indicates an off-site originated update.

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`yy` = The last two digits of the year issued,
`rr` = The release number [for example, 18 for 5E18(1)].
`nnnn` = The sequence number identifying the software update.

NOTE: Double quotes (" ") are required.

`b` = Pathname of the file to be replaced. Refer to the Routine Operations and Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

`c` = The processor to receive the update. Valid value(s):

`AMPATH` = Office specific update in the AM.
`CMP` = Communication module processor.
`DDMA` = Diagnostic direct memory access
`DNUSCC` = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
`DNUSTMX` = Transmission multiplexer.
`DSC3` = Digital service circuit - model 3.
`DSP13K` = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
`DSP8K` = 8K digital signal processor for CDMA protocol handler for voice.
`DSPEVRC` = EVRC digital signal processor for CDMA protocol handler for voice.
`GDSF` = Global digital services function - model 3.
`HDSU` = Hardware digital service unit.
`HSAS` = Service announcement system diagnostic image.
`IDCUCCP` = Integrated digital carrier unit (IDCU) common control processor.
`IDCUDLP` = IDCU data link processor.
`IDCULSI` = IDCU loop side interface.
`IP22` = PH22 common input/output processor (IOP) image.
`IP3S` = PH3 CCS IOP image.
`IP4F` = Frame relay PH4 IOP image.
`IP4I` = ISDN PH4 IOP image.
`IP4IF` = ISDN frame relay PH4 IOP image.
`ISLU` = Integrated services line unit.
`ISLU2` = Integrated services line unit 2.
`ISTF` = Integrated services test function.
`LDSU` = Local digital service unit.
`LDSF` = Local digital services function - model 3.
`MSGH` = Message handler.
`ODMA` = Operational direct memory access.
`OIOP` = Operational input/output processor.
`OIU24` = Optical interface unit (OIU) - 24 channels.
`OIUIP` = Optical interface unit - internet protocol (IP).
`PH2A` = Protocol handler 2 (PH2) with ACCESS application processor (AP) image.
`PH2G` = PH2 with GATEWAY AP image.
`PH22I` = PH22 wireless ISDN AP image.
`PH22S` = PH22 signaling AP image.
`PH3C` = PH3 with COMMON AP image.
`PH3S` = PH3 CCS AP image.
`PH4A` = PH4 access AP image.

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PH4G = PH4 gateway AP image.
PH4I = PH4 with ISDN AP image.
PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A = Protocol handler for ATM model 2 AP image.
PHE2E = Protocol handler for ethernet.
PI = Packet interface.
PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C = PHV2 for CDMA application AP image.
PHV3C = PHV3 for CDMA application AP image.
PHV4C = PHV4 for CDMA application AP image.
PHV5C = PHV5 for CDMA application AP image.
PHV6C = PHV6 for CDMA application AP image.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
SM2K = Switching module-2000 (SM-2000).
SM2KFX = SM-2000 PowerPC\(rg upgrade.
SMPMH = Switching module processor message handler (MH) operational image.
SMPMHLB = Switching module processor MH little boot image.
V3DACP = ACELP DSP for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K + EVRC DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.
V6D13K = 13K + EVRC DSP, for CDMA for PHV6.

d = Name of the source file in the software update package.

e = Pathname of the dependent file to be replaced. Refer to the Operations and Routine Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD:APPLY output message.

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5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-FILER-E

Software Release: 5E19(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a file replacement update associated with a software update. FILER replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, and so forth).

Format 1 is to be used for administrative module (AM) updates only.

Format 2 is to be used for switching module (SM), communications module processor (CMP) or peripheral updates.

Format 4 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=AM,UF="d"[,NREL][,UCL];
       _____________________________________________________________

[2]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=c,UF="d",DF="e"[,UCL];
       _____________________________________________________________

[3]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=g,UF="e",DF="f"[,UCL];
       _____________________________________________________________

[4]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET="AMPATH",UF="d"[,NREL]. . .
       . . .[,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`NREL` = Forces a file replacement of '`b`' by '`d`' when the file types are different in their magic numbers or when one is in common object file format and the other is not.

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

- `BWM` = Indicates an off-site originated update.
- `CFT` = Indicates an on-site originated update.
- `TMP` = Indicates an off-site originated update.

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`yy` = The last two digits of the year issued,
`rr` = The release number [for example, 18 for 5E18(1)].
`nnnn` = The sequence number identifying the software update.

NOTE: Double quotes (" ") are required.

`b` = Pathname of the file to be replaced. Refer to the Routine Operations and Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

`c` = The processor to receive the update. Valid value(s):

`AMPATH` = Office specific update in the AM.
`CMP` = Communication module processor.
`DDMA` = Diagnostic direct memory access
`DNUSCC` = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
`DNUSTMX` = Transmission multiplexer.
`DSC3` = Digital service circuit - model 3.
`DSP13K` = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
`DSP8K` = 8K digital signal processor for CDMA protocol handler for voice.
`DSPEVRC` = EVRC digital signal processor for CDMA protocol handler for voice.
`GDSF` = Global digital services function - model 3.
`HDSU` = Hardware digital service unit.
`HSAS` = Service announcement system diagnostic image.
`IDCUCCP` = Integrated digital carrier unit (IDCU) common control processor.
`IDCUDLP` = IDCU data link processor.
`IDCULSI` = IDCU loop side interface.
`IP22` = PH22 common input/output processor (IOP) image.
`IP3S` = PH3 CCS IOP image.
`IP4F` = Frame relay PH4 IOP image.
`IP4I` = ISDN PH4 IOP image.
`IP4IF` = ISDN frame relay PH4 IOP image.
`ISLU` = Integrated services line unit.
`ISLU2` = Integrated services line unit 2.
`ISTF` = Integrated services test function.
`LDSU` = Local digital service unit.
`LDSF` = Local digital services function - model 3.
`MSGH` = Message handler.
`ODMA` = Operational direct memory access.
`OIOP` = Operational input/output processor.
`OIU24` = Optical interface unit (OIU) - 24 channels.
`OIUIP` = Optical interface unit - internet protocol (IP).
`PH2A` = Protocol handler 2 (PH2) with ACCESS application processor (AP) image.
`PH2G` = PH2 with GATEWAY AP image.
`PH22I` = PH22 wireless ISDN AP image.
`PH22S` = PH22 signaling AP image.
`PH3C` = PH3 with COMMON AP image.
`PH3S` = PH3 CCS AP image.
`PH4A` = PH4 access AP image.

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PH4G = PH4 gateway AP image.
PH4I = PH4 with ISDN AP image.
PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A = Protocol handler for ATM model 2 AP image.
PHE2E = Protocol handler for ethernet.
PHE3B = Protocol handler for IP backhaul image.
PI = Packet interface.
PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C = PHV2 for CDMA application AP image.
PHV3C = PHV3 for CDMA application AP image.
PHV4C = PHV4 for CDMA application AP image.
PHV5C = PHV5 for CDMA application AP image.
PHV6C = PHV6 for CDMA application AP image.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
SM2K = Switching module-2000 (SM-2000).
SM2KFX = SM-2000 PowerPC\(rg upgrade.
SMPMH = Switching module processor message handler (MH) operational image.
SMPMHLB = Switching module processor MH little boot image.
V3DACP = ACELP DSP for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K + EVRC DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.
V6D13K = 13K + EVRC DSP, for CDMA for PHV6.

d = Name of the source file in the software update package.

e = Pathname of the dependent file to be replaced. Refer to the Operations and Routine Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD:APPLY output message.

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5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-FILER-F

Software Release: 5E20(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a file replacement update associated with a software update. FILER replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, and so forth).

Format 1 is to be used for administrative module (AM) updates only.

Format 2 is to be used for switching module (SM) or peripheral updates.

Format 3 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=AM,UF="d"[,NREL][,UCL];
       ____________________________________________________________

[2]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=c,UF="d",DF="e"[,UCL];
       ____________________________________________________________

[3]    UPD:APPLY:FILER,UPNM="a",FN="b",TARGET="AMPATH",UF="d"[,NREL]. . .
       . . .[,UCL];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`NREL` = Forces a file replacement of '`b`' by '`d`' when the file types are different in their magic numbers or when one is in common object file format and the other is not.

`UCL` = Do not enforce order on the software update name '`a`'.

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year issued,
`rr`	= The release number [for example, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update.

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NOTE: Double quotes (" ") are required.

`b` = Pathname of the file to be replaced. Refer to the Routine Operations and Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

`c` = The processor to receive the update. Refer to the APP:TARGETS appendix in the Appendixes section of the Input Messages manual.

`d` = Name of the source file in the software update package.

`e` = Pathname of the dependent file to be replaced. Refer to the Operations and Routine Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a UPD:APPLY output message.

5. REFERENCES

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Input Appendix(es):

```
APP:TARGETS
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1990 INSTALL BWM

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UPD:APPLY-FUNCR-A

Software Release: 5E15 only
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a function replacement update associated with a software update.

Format 1 is to be used for AM updates only.

Format 2 is to be used for SM, CMP or peripheral updates.

Format 3 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files and in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=AM,{UF="e"|UFFN="f"}. . .
       . . .[,UCL][,WTIME="h"];

[2]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=c,PACKINFO="d". . .
       . . .[,DF="g"][,UCL];

[3]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="d". . .
       . . .[,DF="g"][,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the BWM name '`a`'.

`a` = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy are the last two digits of the year, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

`b` = Pathname of the file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory and files.

`c` = The processor to receive the update. Valid value(s):

`AMPATH`	= Office specific update in the AM.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access

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DNUSCC	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX	= Transmission multiplexer.
DSC3	= Digital service circuit - model 3.
DSP13K	= 8K digital signal processor for CDMA protocol handler for voice.
DSP8K	= 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC	= EVRC digital signal processor for CDMA protocol handler for voice.
GDSF	= Global digital services function - model 3.
HDSU	= Hardware digital service unit.
HSAS	= Service announcement system diagnostic image.
IDCUCCP	= Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP3S	= Protocol handler 3 CCS OIP image.
IP4F	= Frame relay protocol handler version 4 I/O processor.
IP4I	= PH4I operational input/output processor.
IP4IF	= ISDN frame relay protocol handler version 4 I/O processor.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
PH2A	= Protocol handler 2 (PH2) with ACCESS application processor image.
PH2G	= PH2 with GATEWAY application processor image.
PH3C	= Protocol handler 3 (PH3) with COMMON application processor image.
PH3S	= PH3 CCS AP image.
PH4A	= Protocol handler 4 (PH4) access image.
PH4G	= PH4 gateway image.
PH4I	= PH4 with integrated services digital network (ISDN) application processor image.
PHA1A	= Protocol handler for ATM (asynchronous transfer mode).
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice for CDMA (code division multiple access).
PHV3C	= Protocol handler for voice version 3 for CDMA application.
PHV4C	= Protocol handler for voice version 4 for CDMA application.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SMPMH	= Switching module processor message handler (MH) operational image.
SMPMHLB	= Switching module processor MH little boot image.
V3DACP	= ACELP digital signal processor, for TDMA protocol handler for voice.
V4D13K	= 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K	= 8K DSP, for CDMA protocol handler for voice version 4.
V4DACP	= ACELP DSP, for TDMA protocol handler for voice version 4.

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V4DEVR1	= EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4DEVR2	= EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4DEVR3	= EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP	= VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL	= ISLP DSP, for IS41 TDMA protocol handler for data circuit.

d = Name of the PACKINFO file.

e = Pathname(s) of one or more update files. May be the name of a single .m file, or a list of .m files. Refer to the Operations and Routine Maintenance manual for instructions on entering a list of file names.

f = Name of the file containing list of .m files for this update.

g = Pathname of the dependent file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory, and files.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-FUNCR-B

Software Release: 5E16(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a function replacement update associated with a software update.

Format 1 is to be used for AM updates only.

Format 2 is to be used for SM, CMP or peripheral updates.

Format 3 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files and in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=AM,{UF="e"|UFFN="f"}. . .
       . . .[,UCL][,WTIME="h"];
       _____________________________________________________________

[2]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=c,PACKINFO="d". . .
       . . .[,DF="g"][,UCL];
       _____________________________________________________________

[3]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="d". . .
       . . .[,DF="g"][,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the BWM name '`a`'.

`a` = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy are the last two digits of the year, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

`b` = Pathname of the file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory and files.

`c` = The processor to receive the update. Valid value(s):
`AMPATH` = Office specific update in the AM.

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CMP	= Communication module processor.
DDMA	= Diagnostic direct memory access
DNUSCC	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX	= Transmission multiplexer.
DSC3	= Digital service circuit - model 3.
DSP13K	= 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
DSP8K	= 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC	= EVRC digital signal processor for CDMA protocol handler for voice.
GDSF	= Global digital services function - model 3.
HDSU	= Hardware digital service unit.
HSAS	= Service announcement system diagnostic image.
IDCUCCP	= Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP22	= PH22 common input/output processor (IOP) image.
IP3S	= PH3 CCS IOP image.
IP4F	= Frame relay PH4 IOP image.
IP4I	= ISDN PH4 IOP image.
IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) image.
MHEIB	= Switching module processor message handler EIB (MHEIB) image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler power PC (MHPPC) image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit - 24 channels.
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.

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PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = Name of the PACKINFO file.

e = Pathname(s) of one or more update files. May be the name of a single .m file, or a list of .m files. Refer to the Operations and Routine Maintenance manual for instructions on entering a list of file names.

f = Name of the file containing list of .m files for this update.

g = Pathname of the dependent file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory, and files.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-FUNCR-C

Software Release: 5E16(2) - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a function replacement update associated with a software update.

Format 1 is to be used for AM updates only.

Format 2 is to be used for SM, CMP or peripheral updates.

Format 3 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files and in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=AM,{UF="e"|UFFN="f"}. . .
       . . .[,UCL][,WTIME="h"];
       _____________________________________________________________

[2]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=c,PACKINFO="d". . .
       . . .[,DF="g"][,UCL];
       _____________________________________________________________

[3]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="d". . .
       . . .[,DF="g"][,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the BWM name '`a`'.

`a` = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy are the last two digits of the year, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

`b` = Pathname of the file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory and files.

`c` = The processor to receive the update. Valid value(s):
`AMPATH` = Office specific update in the AM.

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CMP	= Communication module processor.
DDMA	= Diagnostic direct memory access
DNUSCC	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX	= Transmission multiplexer.
DSC3	= Digital service circuit - model 3.
DSP13K	= 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
DSP8K	= 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC	= EVRC digital signal processor for CDMA protocol handler for voice.
GDSF	= Global digital services function - model 3.
HDSU	= Hardware digital service unit.
HSAS	= Service announcement system diagnostic image.
IDCUCCP	= Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP22	= PH22 common input/output processor (IOP) image.
IP3S	= PH3 CCS IOP image.
IP4F	= Frame relay PH4 IOP image.
IP4I	= ISDN PH4 IOP image.
IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) image.
MHEIB	= Switching module processor message handler EIB (MHEIB) image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler *PowerPC*® (MHPPC) image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit (OIU) - 24 channels.
OIUIP	= Optical interface unit - internet protocol (IP).
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.

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PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C = PHV2 for CDMA application AP image.
PHV3C = PHV3 for CDMA application AP image.
PHV4C = PHV4 for CDMA application AP image.
PHV5C = PHV5 for CDMA application AP image.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
SM2K = Switching module-2000 (SM-2000).
SM2KFX = SM-2000 *PowerPC*® upgrade.
V3DACP = ACELP DSP for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = Name of the PACKINFO file.

e = Pathname(s) of one or more update files. May be the name of a single .m file, or a list of .m files. Refer to the Operations and Routine Maintenance manual for instructions on entering a list of file names.

f = Name of the file containing list of .m files for this update.

g = Pathname of the dependent file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory, and files.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

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5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-FUNCR-D

Software Release: 5E18(1) - 5E19(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a function replacement update associated with a software update.

Format 1 is to be used for AM updates only.

Format 2 is to be used for SM, CMP or peripheral updates.

Format 3 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files and in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=AM,{UF="e"|UFFN="f"}. . .
       . . .[,UCL][,WTIME="h"];
       _____________________________________________________________

[2]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=c,PACKINFO="d". . .
       . . .[,DF="g"][,UCL];
       _____________________________________________________________

[3]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="d". . .
       . . .[,DF="g"][,UCL];
       _____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the BWM name '`a`'.

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year.
`rr`	= The release number [such as, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update.

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NOTE: Double quotes (" ") are required.

b = Pathname of the file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory and files.

c = The processor to receive the update. Valid value(s):

- AMPATH = Office specific update in the AM.
- CMP = Communication module processor.
- DDMA = Diagnostic direct memory access
- DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- DNUSTMX = Transmission multiplexer.
- DSC3 = Digital service circuit - model 3.
- DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
- DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
- GDSF = Global digital services function - model 3.
- HDSU = Hardware digital service unit.
- HSAS = Service announcement system diagnostic image.
- IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
- IDCUDLP = IDCU data link processor.
- IDCULSI = IDCU loop side interface.
- IP22 = PH22 common input/output processor (IOP) image.
- IP3S = PH3 CCS IOP image.
- IP4F = Frame relay PH4 IOP image.
- IP4I = ISDN PH4 IOP image.
- IP4IF = ISDN frame relay PH4 IOP image.
- ISLU = Integrated services line unit.
- ISLU2 = Integrated services line unit 2.
- ISTF = Integrated services test function.
- LDSU = Local digital service unit.
- LDSF = Local digital services function - model 3.
- MH32 = Switching module processor message handler 32 (MH32) image.
- MHEIB = Switching module processor message handler EIB (MHEIB) image.
- MHLB = Switching module processor MH little boot image.
- MHPPC = Switching module processor message handler PowerPC\(rg (MHPPC) image.
- MHPPCLB = Switching module processor MHPPC little boot image.
- MSGH = Message handler.
- ODMA = Operational direct memory access.
- OIOP = Operational input/output processor.
- OIU24 = Optical interface unit (OIU) - 24 channels.
- OIUIP = Optical interface unit - internet protocol (IP).
- PH2A = Protocol handler 2 (PH2) ACCESS application processor (AP) image.
- PH2G = PH2 GATEWAY AP image.
- PH22I = PH22 wireless ISDN AP image.
- PH22S = PH22 signaling AP image.
- PH3C = PH3 COMMON AP image.
- PH3S = PH3 CCS AP image.

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PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
PHV6C	= PHV6 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 PowerPC\(rg upgrade.
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K + EVRC DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = Name of the PACKINFO file.

e = Pathname(s) of one or more update files. May be the name of a single .m file, or a list of .m files. Refer to the Operations and Routine Maintenance manual for instructions on entering a list of file names.

f = Name of the file containing list of .m files for this update.

g = Pathname of the dependent file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory, and files.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

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4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
```

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:APPLY-FUNCR-E

Software Release: 5E20(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a function replacement update associated with a software update.

Format 1 is to be used for administrative module (AM) updates only.

Format 2 is to be used for switching module (SM), Communication module 3 (CM3) message switch application processor (CM3MSGSAP), or peripheral updates.

Format 3 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files and in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
[1]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=AM,{UF="e"|UFFN="f"}. . .
       . . .[,UCL][,WTIME="h"];
       ____________________________________________________________

[2]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=c,PACKINFO="d". . .
       . . .[,DF="g"][,UCL];
       ____________________________________________________________

[3]    UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="d". . .
       . . .[,DF="g"][,UCL];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Do not enforce order on the BWM name '`a`'.

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year.
`rr`	= The release number [such as, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update.

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NOTE: Double quotes (" ") are required.

`b` = Pathname of the file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory and files.

`c` = The processor to receive the update. Refer to the APP:TARGETS appendix in the Appendixes section of the Input Messages manual.

`d` = Name of the PACKINFO file.

`e` = Pathname(s) of one or more update files. May be the name of a single .m file, or a list of .m files. Refer to the Operations and Routine Maintenance manual for instructions on entering a list of file names.

`f` = Name of the file containing list of .m files for this update.

`g` = Pathname of the dependent file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory, and files.

`h` = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when '`b`' is non-killable.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Output Message(s):

```
UPD:APPLY
UPD:SYSERR
UPD:USRERR
```

Input Appendix(es):

```
APP:TARGETS
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1990 INSTALL BWM

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UPD:APPLY-UNIX-A

Software Release: 5E15 - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests update to the software update database (Cud) after the successful execution of the first input message preceding the first UPD:APPLY message in the APPLY section of the MSGS file in a software update (SU).

This input message is not part of the MSGS file and is automatically executed during the Software Update process. If there is no input message preceding the first UPD:APPLY line in the MSGS file, this input message will not be executed.

WARNING: This message overwrites data in system files and is automatically executed, if needed, when 9310 or 9410 is poked from the 1960 page or 9800 is poked from the 1940 page. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
UPD:APPLY:UNIXCMD,UPNM="a";
```

3. EXPLANATION OF MESSAGE

`a` = Software update: specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update ("" is required).

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a UPD:APPLY output message.

5. REFERENCES

Input Message(s):

```
UPD:APPLY-UNIX
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
```

Output Message(s):

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```
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:APPLY-UNIX-B

Software Release: 5E18(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests update to the software update database after the successful execution of the first input message preceding the first UPD:APPLY message in the APPLY section of the MSGS file in a software update (SU).

This input message is not part of the MSGS file and is automatically executed during the software update process. If there is no input message preceding the first UPD:APPLY line in the MSGS file, this input message will not be executed.

WARNING: This message overwrites data in system files and is automatically executed, if needed, when 9310 or 9410 is poked from the 1960 page or 9800 is poked from the 1940 page. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

```
UPD:APPLY:UNIXCMD,UPNM="a";
```

3. EXPLANATION OF MESSAGE

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year issued.
`rr`	= The release number [for example, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update.

NOTE: Double quotes (" ") are required.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

`UPD:APPLY-UNIX`

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```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
```

Output Message(s):

```
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:AUTO

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the status of software update (SU) process automation be determined and/or changed. This input message may be used to inhibit, allow, stop, resume, cancel or request the current status of SU process automation.

2. FORMAT

```
UPD:AUTO:a[,REASON=b];
```

3. EXPLANATION OF MESSAGE

a = Request type. Valid value(s):

- ALW = Allow SU process automation. This allows an SU to be scheduled for automatic installation.
- CANCEL = Cancels the scheduled automatic installation for the SU that is currently scheduled for automatic installation. May also be used to cancel an SU that has stopped its automatic installation.
- INH = Inhibit SU process automation. This prevents an SU from being scheduled for automatic installation.
- RESUME = Resume a previously stopped or aborted automated SU installation.

  Note: This should NEVER appear in an SU MSGS file, and it should only be used by the office personnel to resume an automated SU installation that was previously stopped or aborted.

- STATUS = Show the current status of SU process automation. If it is inhibited this option shows why it is inhibited by displaying the contents of the reason field.
- STOP = Stop the automated SU installation that is currently in progress.

  Note: This causes an office alarm to fire (MAJOR or MINOR alarm, as set in the SU automation office profile).

b = Reason that the office is inhibiting SU process automation (maximum length = 50 characters).

4. SYSTEM RESPONSE

NG = No good. The software update process automation feature is not available.

PF = Printout follows. The request has been accepted. Followed by a UPD:AUTO output message.

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5. REFERENCES

Input Message(s):

```
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED
```

Output Message(s):

```
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1941 (BWM AUTOMATION SCHEDULING)
1942 (BWM AUTOMATION OFFICE PROFILE)
1943 (BWM AUTOMATION HEALTH CHECK)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:AUTOCHK

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Resuests that an office health check be performed (UPD:AUTOCHK) or requests that the results of the last office healthcheck be displayed (UPD:AUTOCHK:STATUS).

2. FORMAT

```
UPD:AUTOCHK:[STATUS];
```

3. EXPLANATION OF MESSAGE

`STATUS` = Show the status of the last office health check that was performed.

4. SYSTEM RESPONSE

`NG` = No good. The software update process automation feature is not available.

`PF` = Printout follows. The request has been accepted. Followed by a UPD:AUTOCHK output message.

5. REFERENCES

Input Message(s):

```
UPD:AUTO
UPD:AUTOPROFILE
UPD:AUTOSCHED
```

Output Message(s):

```
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1941 (BWM AUTOMATION SCHEDULING)
1942 (BWM AUTOMATION OFFICE PROFILE)

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1943 (BWM AUTOMATION HEALTH CHECK)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:AUTOPROFILE

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the software update (SU) process automation office profile be changed according to the arguments and values specified in the input message. This SU process automation office profile is used when an SU is scheduled to be automatically installed. The values contained in the office profile are used as defaults when an SU is scheduled in the case where other information is not given.

For example, if an SU is scheduled for automatic installation and no installation state is specified, then the installation state defaults to what is listed in the office profile ('a' in this case).

Note: The valid values allowed for each argument are listed with the description of each argument.

2. FORMAT

```
UPD:AUTOPROFILE:{ [INSTATE="a"], [SOAKTM=b], [ALARMLVL="c"], [CSCANS="d"],
[WARNTM=e], [PROCINIT=f], [CLRBWM="g"], [SUNOFF=h-i], [MONOFF=h-i],
[TUEOFF=h-i], [WEDOFF=h-i], [THUOFF=h-i], [FRIOFF=h-i], [SATOFF=h-i],
[HCON=j], [HCOFF=k], [HCINFO=l] };
```

3. EXPLANATION OF MESSAGE

a = The install state. Valid value(s):
OFC
SOAK
VFY

b = The length of soak time desired for an SU that is automatically installed in the form HHMM.
HH = Hours.
MM = Minutes.

c = The alarm level that should go off when an automated SU installation halts for any reason (MAJOR or MINOR). This also controls the level of alarm that fires for the advance warning message.

d = State indicating whether or not SU process automation update office profile input messages may be issued over the CSCANS interface (Y or N).

e = The time interval before SU automation starts that a warning message is desired in the form HHMM.
HH = Hours.
MM = Minutes.

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For example, if set to 0030 then a warning message prints out and an office alarm goes off 30 minutes before a scheduled SU begins automatic installation.

f = The number of hours since any processor initialization took place for AM, SM, CMP in the form HH.
HH = Hours.

g = State indicating whether or not SU process automation should remove the SU after it has completed the make official stage (Y or N).

h = The beginning of the time interval that SU automation is not allowed, for the given day in the form HHMM (from 0000 to 2359).

i = The end of the time interval that SU automation is not allowed, for the given day in the form HHMM (from 0000 to 2359).

j = A number indicating the health check condition that should be turned ON. Valid value(s) shown in Exhibit A.

k = A number indicating the health check condition that should be turned OFF. Valid value(s) shown in Exhibit A.

l = A number indicating the health check condition for which a more detailed explanation is desired. Valid value(s) shown in Exhibit A.

Value	Description
00	AM BREAKPOINTS
01	AM DUPLEX
02	BWM IS TEMP
03	BWM INCONSISTNT
04	SCC LINK
05	AM OVERLOAD
06	SM OVERLOAD
07	CMP OVERLOAD
08	SM HASHERR
09	LAST CMP HASHERR
10	LAST SM ISOLATED
11	LAST SM BREAKPOINTS
12	CMP BREAKPOINTS
13	LAST AM INIT
14	LAST SM INIT
15	LAST CMP INIT
16	RETR RC INHIBIT
17	DBREORG INHIBIT
18	RC CORCS INHIBIT
19	RETR GNUPD LTG
20	BWM ODD BACKUP
21	RC IN PROGRESS
22	GEN BACKUP
23	PERIPHERALS
24	FILESPACE

4. SYSTEM RESPONSE

NG = No good. The software update process automation feature is not available.

PF = Printout follows. The request has been accepted. Followed by a UPD:AUTOPROFILE output

message.

5. REFERENCES

Input Message(s):

```
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOSCHED
```

Output Message(s):

```
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1941 (BWM AUTOMATION SCHEDULING)
1942 (BWM AUTOMATION OFFICE PROFILE)
1943 (BWM AUTOMATION HEALTH CHECK)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:AUTOSCHED

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the named software update (SU) be scheduled for automatic installation (UPNM option) or requests the status of the currently scheduled SU (STATUS option). It is important to note that if values are given for DATE, TIME, and/or STATE, then these values are used only for the SU currently being scheduled and these values will override the default values stored in the office profile. If no values are given, then the default values are used from the office profile.

2. FORMAT

```
UPD:AUTOSCHED:STATUS[,UPNM="a"][,DATE=b][,TIME=c][,STATE="d"]
```

3. EXPLANATION OF MESSAGE

`STATUS` = Show the status of the SU currently scheduled for automatic installation, if any.

`a` = The 10 character software update name.

`b` = The date to automatically install the SU in the form `MMDDYY`.
- `DD` = Day.
- `MM` = Month.
- `YY` = Year.

`c` = The time to automatically install the SU in the form `HHMM`.
- `HH` = Hour.
- `MM` = Minute.

`d` = The install state to automatically install the SU. Valid value(s):
- `OFC`
- `SOAK`
- `VFY`

4. SYSTEM RESPONSE

`NG` = No good. The software update process automation feature is not available.

`PF` = Printout follows. The request has been accepted. Followed by a UPD:AUTOSCHED output message.

5. REFERENCES

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Input Message(s):

```
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOPROFILE
```

Output Message(s):

```
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1941 (BWM AUTOMATION SCHEDULING)
1942 (BWM AUTOMATION OFFICE PROFILE)
1943 (BWM AUTOMATION HEALTH CHECK)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:BKOUT-A

Software Release: 5E15 - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that software updates be backed out. Software updates can be backed out only in the reverse order in which they were applied.

2. FORMAT

```
UPD:BKOUT:{UPNM="a"|ALL}[,OFC];
```

3. EXPLANATION OF MESSAGE

`ALL` = Remove all temporary software updates active in the system.

`OFC` = Backout software update '`a`' even though it is official.

`a` = Software update: specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year, and nnnn is the sequence number identifying the software update (" " is required).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by one or more UPD:BKOUT output messages.

5. REFERENCES

Input Message(s):

```
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:DISPLAY
```

Output Message(s):

```
UPD:BKOUT
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:BKOUT-B

Software Release: 5E18(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that software updates be backed out. Software updates can be backed out only in the reverse order in which they were applied.

2. FORMAT

```
UPD:BKOUT:{UPNM="a"|ALL}[,OFC];
```

3. EXPLANATION OF MESSAGE

`ALL` = Remove all temporary software updates active in the system.

`OFC` = Backout software update '`a`' even though it is official.

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`. Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year.
`rr`	= The release number [for example, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update.

NOTE: Double quotes (" ") are required.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by one or more UPD:BKOUT output messages.

5. REFERENCES

Input Message(s):

```
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:DISPLAY
```

Output Message(s):

```
UPD:BKOUT
```

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```
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:BLDBOOT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the administrative module (AM) minimum-configuration or full-configuration boot image be updated. This message replaces UPD:APPDMRT and UPD:DMRT input messages only.

WARNING: All existing data in the targeted boot image will be destroyed.

2. FORMAT

```
UPD:BLDBOOT[,BOOTIMAGE="a"][,SGDB="b"][,SGEN="c"][,SHADOW="d"];
```

3. EXPLANATION OF MESSAGE

`a` = Name of boot images to be generated. The default ("/dmert") rebuilds the minimum-configuration boot image. To rebuild the full-configuration boot image, use "/appdmert" (" " is required).

`b` = Name of the system generation (SG) data base to be used in building the boot image. The default data base for the minimum-configuration boot image is /data base/dmert.sg. The default data base for the full-configuration boot image is /data base/appdmert.sg (" " is required).

`c` = Pathname of the process to be executed to build the boot image. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname. The default process pathname is /bin/isgen (" " is required).

`d` = Pathname of a file (shadow file) used in building the boot image. The file must consist entirely of adequate contiguous space and is essential to safe updating of the boot image. The default shadow file is /..dmert (" " is required).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by a UPD:BLDBOOT output message.

5. REFERENCES

Output Message(s):

```
UPD:BLDBOOT
UPD:SYSERR
```

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```
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:BLOCK-A

Software Release: 5E15 - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an official software update be blocked or inhibited from being backed out. This message blocks the software update message from being backed out and any other software updates below the one specified.

The UPD:BLOCK message should only be used when a software update name is specified. If it is necessary to block all software updates that have been made official, the UPD:BLOCK message should be used with the last software update that has been made official. This would block the last official software update and all previous official software updates.

2. FORMAT

```
UPD:BLOCK:UPNM="a";
```

3. EXPLANATION OF MESSAGE

`a` = Software update: specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update (" " is required).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by one or more UPD:BKOUT output messages.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
```

Output Message(s):

```
UPD:BKOUT
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

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1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:BLOCK-B

Software Release: 5E18(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an official software update be blocked or inhibited from being backed out. This message blocks the software update message from being backed out and any other software updates below the one specified.

The UPD:BLOCK message should only be used when a software update name is specified. If it is necessary to block all software updates that have been made official, the UPD:BLOCK message should be used with the last software update that has been made official. This would block the last official software update and all previous official software updates.

2. FORMAT

```
UPD:BLOCK:UPNM="a";
```

3. EXPLANATION OF MESSAGE

`a` = Software update, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year issued.
`rr`	= The release number [for example, 18 for 5E18(1)].
`nnnn`	= the sequence number identifying the software update.

NOTE: Double quotes (" ") are required.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by one or more UPD:BKOUT output messages.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
```

Output Message(s):

```
UPD:BKOUT
UPD:SYSERR
UPD:USRERR
```

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Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:BOLO

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the last official software update be backed out. No more than three official software updates are permitted to be backed out. The three software update names are listed on MCC Display Page 1950 next to indicators showing the back-out level of each software update. The "LAST OFC" software update was most recently applied and made official. The "2nd FROM TOP" software update was made official before the "LAST OFC" software update. The "3rd FROM TOP" software update was applied and made official before both the "2nd FROM TOP" software update and the "LAST OFC" software update.

As a new software update is made official, it becomes the "LAST OFC" software update, and the previous "LAST OFC" and "2nd FROM TOP" software updates are moved down to be the "2nd FROM TOP" and "3rd FROM TOP" software updates, respectively. The previous "3rd FROM TOP" software update can no longer be backed out, and is therefore removed from the list of software updates permitted to be backed out.

Executing this input message (UPD:BOLO) in effect requests the back-out of the "LAST OFC" software update. Upon successful completion, the back-out removes the "LAST OFC" software update from the list of software updates permitted to be backed out and moves the "2nd FROM TOP" and "3rd FROM TOP" software updates up to be the new "LAST OFC" and "2nd FROM TOP" software updates, respectively. After an official back-out there is no "3rd FROM TOP" software update because one of the three software updates which could be backed out has been backed out. A software update name is added to the back-out list only when that software update is made official on the switch.

2. FORMAT

```
UPD:BOLO[:UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Override the existence of the file odd.bwm, which would otherwise cause the UPD:BOLO input message to abort. The odd.bwm file contains ODD related changes associated with the software update.

4. SYSTEM RESPONSE

`OK` = Good. The request has been accepted. Followed by one or more UPD:BKOUT output messages and one UPD:BOLO output message.

5. REFERENCES

Input Message(s):

```
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:BKOUT
```

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```
UPD:DISPLAY
```

Output Message(s):

```
UPD:BKOUT
UPD:BOLO
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:CA2IPMAP

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a packet switching unit (PSU) community address (CA) to internet protocol (IP) mapping (CA2IPMAP) update of all or specific IP neighbors in the IP address manager (AM) (IPAM) neighbor list for a given cluster or office.

The report will contain far clusters and offices as well as an indication of whether the update to the far end was successful.

2. FORMAT

```
UPD:CA2IPMAP[,CLUSTER=a][,OFFICE=b];
```

3. EXPLANATION OF MESSAGE

`a` = Cluster name.

`b` = Office name.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more UPD:CA2IPMAP output messages.

`NG` = No good. May also include:
- `CLUSTER NOT PROVISIONED` = The request has been denied. The message is valid but the cluster is not provisioned.
- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- `OFFICE NOT PROVISIONED` = The request has been denied. The message is valid but the office is not provisioned.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The request has been denied. The message is valid but the CMP is not available.

5. REFERENCES

Output Message(s):

```
OP:CA2IPMAP
UPD:CA2IPMAP
```

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Input Appendix(es):

```
APP:RANGES
```

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UPD:CCS-CUTOVER

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Used during the common network interface (CNI) to host global switching module (GSM) conversion procedure to copy and initialize integrated services user part (ISUP) trunk member data in the host GSM processor. The data is obtained from static data relations in the CMP processor and copied to the host GSM processor. Any ISUP trunk which is currently defined as using the CNI platform will be populated into the GSM platform relations to be used for distributing the incoming ISUP messages to the trunk SMs.

WARNING: This command uses the database manager to update internal switch cross processor static data. The command is allowed to execute only when the RC/V View 8.15 (CCS OFFICE PARAMETERS) field CUTOVER is set to the value PRECUT. Additionally, the host GSM processor is defined on the RC/V View 8.15 field HOST PLAT 2. There may also be many relation tuples requiring an update, and thus the command may take a significant amount of time to complete. The command will make a status report once every minute until it has completed.

2. FORMAT

```
UPD:CCS,CUTOVER[,BKOUT];
```

3. EXPLANATION OF MESSAGE

`BKOUT` = Used to undo a previous invocation of the command. Only the previously inserted ISUP trunk data resulting from the running the UPD:CCS-CUTOVER input message is deleted from the host GSM processor.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:CCS-CUTOVER output message.

`NG` = No good. May also include:

- `OFFICE NOT IN CUTOVER MODE` = The update cannot be performed because the office is not in the correct state. RC/V View 8.15 field "CUTOVER MODE" must be set to the values PRECUT or POSTCUT for this input message to succeed.
- `HOST PLAT 2 IS NOT A VALID GSM` = The update cannot be performed because the GSM number specified on RC/V View 8.15 field "HOST PLAT 2" is not currently defined as a valid host GSM or does not exist. This indicates a problem with the internal data.
- `CNI PRIMARY OPC NOT POPULATED ON HOST GSM` = The update cannot be performed because the primary OPC of the CNI is not currently defined as the primary or alias OPC of the host GSM.

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`RL` = Retry later. May also include:
- `GSM NOT AVAILABLE` = The GSM is not currently available, due to initialization or isolation.
- `PREVIOUS REQUEST IN PROGRESS` = A previous UPD:CCS request is being serviced.
- `SYSTEM BUSY` = A system resource error was encountered that prohibits the input message from running. OSDS on the AM processor failed to transmit a message to the CMP processor.

5. REFERENCES

Input Message(s):

```
UPD:CCS-PSUMOD
OP:CCS-GSM
```

Output Message(s):

```
UPD:CCS-CUTOVER
UPD:CCS-PSUMOD
OP:CCS-GSM
```

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

MCC Display Page(s):
118 CNI STATUS
1530 HOST GSM STATUS

RC/V View(s):
8.15 CCS OFFICE PARAMETERS

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UPD:CCS-PSUMOD

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Used during the common network interface (CNI) platform to host global switching module (GSM) platform conversion procedure to update internal integrated services user part (ISUP) trunk group/member and transaction capability application part (TCAP) application relational data for the "psu_mod" attribute. The psu_mod attribute indicates the target platform that is to be used to transport the SS7 message when the office is not in the platform conversion mode.

The input message is used towards the end of the conversion procedure to update this internal data to indicate the new signaling platform is the host GSM instead of the CNI. It may also be used during the backout of the conversion to indicate that the CNI platform is to return as the desired platform.

WARNING: This input message uses the database manager to update internal switch cross processor static data. The command is allowed to execute only when the RC/V View 8.15 (CCS OFFICE PARAMETERS) field CUTOVER is set to the value POSTCUT. There may also be many relation tuples requiring an update and the input message may take a significant amount of time to complete. The input message will make a status report once every minute until it has completed.

2. FORMAT

```
UPD:CCS,PSUMOD,OLD=a,NEW=b;
```

3. EXPLANATION OF MESSAGE

`a` = The platform number that is being switched from. When converting from the CNI platform to the host GSM platform, this parameter represents the CNI. If the platform conversion is being backed out, this parameter represents the host GSM. Valid value(s):

`0` = CNI platform.
`1 -192` = GSM number.

`b` = The platform number that is being switched to. When converting from the CNI platform to the host GSM platform, this parameter represents the host GSM. If the platform conversion is being backed out, this parameter represents the CNI. Valid value(s):

`0` = CNI platform.
`1 -192` = GSM number.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:CCS-PSUMOD output message.

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NG = No good. May also include:
- OFFICE NOT IN POST CUTOVER MODE = The update cannot be performed because the office is not in the correct state. RC/V View 8.15 field "CUTOVER MODE" must be set to the value POSTCUT for this input message to succeed.
- CNI PRIMARY OPC NOT POPULATED ON HOST GSM = The update cannot be performed because the GSM number specified on RC/V View 8.15 field "HOST PLAT 2" is not currently defined as the valid host GSM.
- HOST PLAT 2 IS NOT A VALID GSM = The update cannot be performed because the GSM number specified on RC/V View 8.15 field "HOST PLAT 2" is not currently defined as a valid host GSM or does not exists. This indicates a problem with the internal data.
- GSM DOES NOT MATCH HOST PLAT 2 = The update cannot be performed because the GSM number specified in either the "NEW" or "OLD" field does not match RC/V View 8.15 field "HOST PLAT 2".
- OLD OR NEW PARAMETER MUST BE THE CNI = The update cannot be performed because one of the input parameters must be the CNI, represented as the value 0.

RL = Retry later. May also include:
- GSM NOT AVAILABLE = The GSM is not currently available, due to initialization or isolation.
- PREVIOUS REQUEST IN PROGRESS = A previous UPD:CCS request is being serviced.
- SYSTEM BUSY = A system resource error was encountered which prohibits the command from running. OSDS on the AM processor failed to transmit a message to the CMP processor.

5. REFERENCES

Input Message(s):

```
UPD:CCS-CUTOVER
OP:CCS-GSM
```

Output Message(s):

```
UPD:CCS-PSUMOD
UPD:CCS-CUTOVER
OP:CCS-GSM
```

Other Manual(s):
235-200-115 *CNI Common Channel Signaling*
235-200-116 *Signaling Gateway Common Channel Signaling*

MCC Display Page(s):
118 CNI STATUS
1530 HOST GSM STATUS

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RC/V View(s):
8.15 CCS OFFICE PARAMETERS

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UPD:CLR-A

Software Release: 5E15 - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one or more software updates be cleared from the administrative module (AM) field update directory.

WARNING: Incorrect use of this message can result in the removal of needed files.

2. FORMAT

```
UPD:CLR:BWM="a"[-"a"[-"a"...]];
```

3. EXPLANATION OF MESSAGE

`a` = Software update name. A list of 1 to 10 software update names may be specified, in the form `BWMyy-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn` where `BWM`, `TMP`, and `CFT` identify the category of software update, `yy` is the last two digits of the year, and `nnnn` is the sequence number identifying the software update.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted.

5. REFERENCES

Input Message(s):

```
UPD:CLRBWM
UPD:OFC
```

Output Message(s):

```
UPD:CLR
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

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UPD:CLR-B

Software Release: 5E18(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one or more software updates be cleared from the administrative module (AM) field update directory.

WARNING: Incorrect use of this message can result in the removal of needed files.

2. FORMAT

```
UPD:CLR:BWM="a"[-"a"[-"a"...]];
```

3. EXPLANATION OF MESSAGE

`a` = Software update name. A list of 1 to 10 software update names may be specified, in the form `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`. Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year.
`rr`	= The release number [for example, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update.

NOTE: Double quotes (" ") are required.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted.

5. REFERENCES

Input Message(s):

```
UPD:OFC
```

Output Message(s):

```
UPD:CLR
UPD:SYSERR
UPD:USRERR
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

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UPD:CSCANS-REPT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a report containing the current status of the active file receiving process from the Customer Service Computer Access Network System (CSCANS) interface.

2. FORMAT

```
UPD:CSCANS:REPORT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted, and a UPD:CSCANS-REPT output message will follow.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
UPD:CSCANS-STOP
UPD:INITPW
```

Output Message(s):

```
UPD:CSCANS-REPT
UPD:CSCANS-STOP
UPD:INITPW
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:CSCANS-STOP

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the download of software update files from the remote source be terminated. If file transmission has begun, a session-disconnect message is sent to the remote end to notify the Customer Service Computer Access Network System (CSCANS) of the termination.

2. FORMAT

```
UPD:CSCANS:STOP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted, and a UPD:CSCANS-STOP output message will follow.

`RL` = Retry later.

5. REFERENCES

Input Message(s):

```
UPD:CSCANS-REPT
```

Output Message(s):

```
UPD:CSCANS
UPD:CSCANS-STOP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:DISPLAY-A

Software Release: 5E15 - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that information about administrative module (AM) software updates be displayed. The updates are selected on the basis of parameters which supply cumulative restrictions.

2. FORMAT

```
UPD:DISPLAY[:UPNM="a"][,STATUS=b][,BACKLOG][,SUM][,V];
```

3. EXPLANATION OF MESSAGE

`BACKLOG` = The BACKLOG option allows a user to request a summary report of previously applied software updates. Furthermore, the report will summarize software updates that no longer have the capability of BOLO.

`SUM` = A short summary of the last official, user, and temporary software updates and a list of active users.

`V` = A short version (verbose) of all updates on the switch.

`a` = Software update name.

`b` = Status of update or software update. Valid value(s):
- `OFC` = Official.
- `TMP` = Temporary.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:DISPLAY output message.

5. REFERENCES

Input Message(s):

```
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:BLDBOOT
UPD:OFC
```

Output Message(s):

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```
UPD:DISPLAY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:DISPLAY-B

Software Release: 5E18(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that information about administrative module (AM) software updates be displayed. The updates are selected on the basis of parameters which supply cumulative restrictions.

2. FORMAT

```
UPD:DISPLAY[:UPNM="a"][,STATUS=b][,BACKLOG][,SUM][,V];
```

3. EXPLANATION OF MESSAGE

`BACKLOG` = The BACKLOG option allows a user to request a summary report of previously applied software updates. Furthermore, the report will summarize software updates that no longer have the capability of BOLO.

`SUM` = A short summary of the last official, user, and temporary software updates and a list of active users.

`V` = A short version (verbose) of all updates on the switch.

`a` = Software update name.

`b` = Status of update or software update. Valid value(s):
- `OFC` = Official.
- `TMP` = Temporary.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:DISPLAY output message.

5. REFERENCES

Input Message(s):

```
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:BLDBOOT
UPD:OFC
```

Output Message(s):

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```
UPD:DISPLAY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:DSPKGDEPEND

Software Release: 5E16(2) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that when a call processing (CP) node is added (grown in) to a virtual switch, or there is inter-dependency between the *5ESS®* software version and the administrative services module (ASM) software version, the CP node must be evaluated for the dependency.

A dependency check is used within the program update code during software update application to determine whether the ASM is at a prescribed minimum software update (SU) level. This will ensure that each CP node can communicate with the ASM in an intelligent distant reliable module (IDRM) type office.

2. FORMAT

```
UPD:DSPKGDEPEND:DATA,UPNM=a,[PKGDEPLIST=b],[UCL];
```

3. EXPLANATION OF MESSAGE

`a` = SU package name. The maximum length is 10 characters.

`b` = The file name which contains the following:

```
<software_package> <software_version> <hardware_target>
```

If no file name of pkgdeplist is provided with the "-f" option, the default file name will be "pkgdeplist" under the bwmname directory.

`UCL` = Unconditional command option. This is for the user to override checking ASM SU level.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. This is followed by UPD:DSPKGDEPEND output message.

5. REFERENCES

Output Message(s):

```
UPD:DSPKGDEPEND
```

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UPD:DUMPCORE-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.

Format 1 is to be used to dump CMP memory to a file.

Format 2 is to be used to dump SM memory to a file.

Format 3 is to be used to dump SM memory to a file using a peripheral image address. This input message may be useful for problem resolution that involves examination of core memory. For example, if a range of memory in a certain SM is suspect, then this range of memory can be dumped to a file. Then the same range of memory in another SM of the same configuration can be dumped to a second file. Then *UNIX*® utilities can be used to compare to two files. Format 1 is for the CMP only. This input message requires that the primary or mate processor be specified since the primary and mate processors of the CMP function independently and they may or may not have the same core memory contents.

Format 2 is for the SM only and it does not support the primary or mate options because the mate module controller/time slot interchange (MCTSI) is continually updated [when in standby (STDBY) mode] with the contents of the active MCTSI. With the 'PADDR' option the user is requesting to dump a physical address in an SM. When the 'VADDR' option is given, the user is requesting a virtual address which will be internally mapped to the corresponding physical address in the requested SM.

Format 3 is for the SM only and does not support the mate option. This format is useful when the user wishes to dump SM memory based on a peripheral image address. This will get internally mapped to the corresponding physical address in the requested SM. The file that is created is a data file and can not be examined with tools or editors that expect American standard code for information interchange (ASCII) text input.

WARNING: The amount of data that can be dumped is not restricted. The size of the output file will be the number of bytes that are specified after the L option. Thus all output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with other routine activities.

2. FORMAT

```
[1]    UPD:DUMPCORE:DATA,CMP=a,{PRIM|MATE}[,TARGET=c],ADDR=d. . .
       . . .,L=e,OUTFILE=f;

[2]    UPD:DUMPCORE:DATA,SM=b,{PADDR=d|VADDR=d},L=e,OUTFILE=f;

[3]    UPD:DUMPCORE:DATA,SM=b,PERF=c,PADDR=d,L=e,OUTFILE=f;
```

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3. EXPLANATION OF MESSAGE

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Targets. Valid value(s):

CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCULSI
IP3S
IP4F
IP4I
IP4IF
ISLU
ISLU2
ISTF
LDSU
LDSF
MSGH
ODMA
OIOP
PH2A
PH2G
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PI
PI2
PHV1C
PHV3C
PHV4C
RAF
SAS
SM

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SM2K
SMPMH
SMPMHLB
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL

d = Address to start memory dump at.

e = Number of bytes to dump from core memory.

f = Full path name to the output file used to store the data dumped from core memory.

4. SYSTEM RESPONSE

PF = Printout follows. The message was accepted and the dump of incore memory has begun. This will be followed by a completion message when the dump successfully finishes.

5. REFERENCES

Output Message(s):

UPD:DUMPCORE
UPD:SYSERR
UPD:USRERR

Input Appendix(es):

APP:RANGES

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UPD:DUMPCORE-B

Software Release: 5E16(1) only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.

Format 1 is to be used to dump CMP memory to a file.

Format 2 is to be used to dump SM memory to a file.

Format 3 is to be used to dump SM memory to a file using a peripheral image address.

This input message may be useful for problem resolution that involves examination of core memory. For example, if a range of memory in a certain SM is suspect, then this range of memory can be dumped to a file. Then the same range of memory in another SM of the same configuration can be dumped to a second file. Then *UNIX*® utilities can be used to compare to two files.

Format 1 is for the CMP only. This input message requires that the primary or mate processor be specified since the primary and mate processors of the CMP function independently and they may or may not have the same core memory contents.

Format 2 is for the SM only and it does not support the primary or mate options because the mate module controller/time slot interchange (MCTSI) is continually updated [when in standby (STDBY) mode] with the contents of the active MCTSI.

With the 'PADDR' option the user is requesting to dump a physical address in an SM. When the 'VADDR' option is given, the user is requesting a virtual address which will be internally mapped to the corresponding physical address in the requested SM.

Format 3 is for the SM only and does not support the mate option. This format is useful when the user wishes to dump SM memory based on a peripheral image address. This will get internally mapped to the corresponding physical address in the requested SM.

The file that is created is a data file and can not be examined with tools or editors that expect American standard code for information interchange (ASCII) text input.

WARNING: The amount of data that can be dumped is not restricted. The size of the output file will be the number of bytes that are specified after the L option. Thus all output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with other routine activities.

2. FORMAT

```
[1]    UPD:DUMPCORE:DATA,CMP=a,{PRIM|MATE}[,TARGET=c],ADDR=d. . .
```

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```
       . . .,L=e,OUTFILE=f;
       ____________________________________________________________

[2]    UPD:DUMPCORE:DATA,SM=b,{PADDR=d|VADDR=d},L=e,OUTFILE=f;
       ____________________________________________________________

[3]    UPD:DUMPCORE:DATA,SM=b,PERF=c,PADDR=d,L=e,OUTFILE=f;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Targets. Valid value(s):

```
CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCULSI
IP22
IP3S
IP4F
IP4I
IP4IF
ISLU
ISLU2
ISTF
LDSU
LDSF
MH32
MHEIB
MHLB
MHPPC
MHPPCLB
MSGH
ODMA
OIOP
OIU24
PH2A
PH2G
PH22I
```

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```
PH22S
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PHA2A
PHE2E
PI
PI2
PHV1C
PHV3C
PHV4C
PHV5C
RAF
SAS
SM
SM2K
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
V5D13K
V5D8K
V5DACP
V5DEVR1
V5DEVR2
V5DEVR3
V5DVSP
V5DISL
```

`d` = Address to start memory dump at.

`e` = Number of bytes to dump from core memory.

`f` = Full path name to the output file used to store the data dumped from core memory.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the dump of incore memory has begun. This will be followed by a completion message when the dump successfully finishes.

5. REFERENCES

Output Message(s):

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```
UPD:DUMPCORE
UPD:SYSERR
UPD:USRERR
```

Input Appendix(es):

```
APP:RANGES
```

UPD:DUMPCORE-C

Software Release: 5E16(2) - 5E17(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.

Format 1 is to be used to dump CMP memory to a file.

Format 2 is to be used to dump SM memory to a file.

Format 3 is to be used to dump SM memory to a file using a peripheral image address.

This input message may be useful for problem resolution that involves examination of core memory. For example, if a range of memory in a certain SM is suspect, then this range of memory can be dumped to a file. Then the same range of memory in another SM of the same configuration can be dumped to a second file. Then *UNIX*® utilities can be used to compare to two files.

Format 1 is for the CMP only. This input message requires that the primary or mate processor be specified since the primary and mate processors of the CMP function independently and they may or may not have the same core memory contents.

Format 2 is for the SM only and it does not support the primary or mate options because the mate module controller/time slot interchange (MCTSI) is continually updated [when in standby (STDBY) mode] with the contents of the active MCTSI.

With the 'PADDR' option the user is requesting to dump a physical address in an SM. When the 'VADDR' option is given, the user is requesting a virtual address which will be internally mapped to the corresponding physical address in the requested SM.

Format 3 is for the SM only and does not support the mate option. This format is useful when the user wishes to dump SM memory based on a peripheral image address. This will get internally mapped to the corresponding physical address in the requested SM.

The file that is created is a data file and can not be examined with tools or editors that expect American standard code for information interchange (ASCII) text input.

WARNING: The amount of data that can be dumped is not restricted. The size of the output file will be the number of bytes that are specified after the L option. Thus all output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with other routine activities.

2. FORMAT

```
[1]    UPD:DUMPCORE:DATA,CMP=a,{PRIM|MATE}[,TARGET=c],ADDR=d. . .
```

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```
       . . .,L=e,OUTFILE=f;
       ____________________________________________________________

[2]    UPD:DUMPCORE:DATA,SM=b,{PADDR=d|VADDR=d},L=e,OUTFILE=f;
       ____________________________________________________________

[3]    UPD:DUMPCORE:DATA,SM=b,PERF=c,PADDR=d,L=e,OUTFILE=f;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Targets. Valid value(s):

```
CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCULSI
IP22
IP3S
IP4F
IP4I
IP4IF
ISLU
ISLU2
ISTF
LDSU
LDSF
MH32
MHEIB
MHLB
MHPPC
MHPPCLB
MSGH
ODMA
OIOP
OIU24
OIUIP
PH2A
PH2G
```

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```
PH22I
PH22S
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PHA2A
PHE2E
PI
PI2
PHV1C
PHV3C
PHV4C
PHV5C
RAF
SAS
SM
SM2K
SM2KFX
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
V5D13K
V5D8K
V5DACP
V5DEVR1
V5DEVR2
V5DEVR3
V5DVSP
V5DISL
```

`d` = Address to start memory dump at.

`e` = Number of bytes to dump from core memory.

`f` = Full path name to the output file used to store the data dumped from core memory.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the dump of incore memory has begun. This will be followed by a completion message when the dump successfully finishes.

5. REFERENCES

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Output Message(s):

```
UPD:DUMPCORE
UPD:SYSERR
UPD:USRERR
```

Input Appendix(es):

```
APP:RANGES
```

UPD:DUMPCORE-D

Software Release: 5E18(1) - 5E19(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.

Format 1 is to be used to dump CMP memory to a file.

Format 2 is to be used to dump SM memory to a file.

Format 3 is to be used to dump SM memory to a file using a peripheral image address.

This input message may be useful for problem resolution that involves examination of core memory. For example, if a range of memory in a certain SM is suspect, then this range of memory can be dumped to a file. Then the same range of memory in another SM of the same configuration can be dumped to a second file. Then *UNIX*® utilities can be used to compare to two files.

Format 1 is for the CMP only. This input message requires that the primary or mate processor be specified since the primary and mate processors of the CMP function independently and they may or may not have the same core memory contents.

Format 2 is for the SM only and it does not support the primary or mate options because the mate module controller/time slot interchange (MCTSI) is continually updated [when in standby (STDBY) mode] with the contents of the active MCTSI.

With the 'PADDR' option the user is requesting to dump a physical address in an SM. When the 'VADDR' option is given, the user is requesting a virtual address which will be internally mapped to the corresponding physical address in the requested SM.

Format 3 is for the SM only and does not support the mate option. This format is useful when the user wishes to dump SM memory based on a peripheral image address. This will get internally mapped to the corresponding physical address in the requested SM.

The file that is created is a data file and can not be examined with tools or editors that expect American standard code for information interchange (ASCII) text input.

WARNING: The amount of data that can be dumped is not restricted. The size of the output file will be the number of bytes that are specified after the L option. Thus all output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with other routine activities.

2. FORMAT

```
[1]    UPD:DUMPCORE:DATA,CMP=a,{PRIM|MATE}[,TARGET=c],ADDR=d. . .
```

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```
       . . .,L=e,OUTFILE=f;
       ____________________________________________________________

[2]    UPD:DUMPCORE:DATA,SM=b,{PADDR=d|VADDR=d},L=e,OUTFILE=f;
       ____________________________________________________________

[3]    UPD:DUMPCORE:DATA,SM=b,PERF=c,PADDR=d,L=e,OUTFILE=f;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Targets. Valid value(s):

```
CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCULSI
IP22
IP3S
IP4F
IP4I
IP4IF
ISLU
ISLU2
ISTF
LDSU
LDSF
MH32
MHEIB
MHLB
MHPPC
MHPPCLB
MSGH
ODMA
OIOP
OIU24
OIUIP
PH2A
PH2G
```

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```
PH22I
PH22S
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PHA2A
PHE2E
PI
PI2
PHV1C
PHV3C
PHV4C
PHV5C
PHV6C
RAF
SAS
SM
SM2K
SM2KFX
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
V5D13K
V5D8K
V5DEVR1
V5DEVR2
V5DEVR3
V5DVSP
V5DISL
V6D13K
```

`d` = Address to start memory dump at.

`e` = Number of bytes to dump from core memory.

`f` = Full path name to the output file used to store the data dumped from core memory.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the dump of incore memory has begun. This will be followed by a completion message when the dump successfully finishes.

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5. REFERENCES

Output Message(s):

```
UPD:DUMPCORE
UPD:SYSERR
UPD:USRERR
```

Input Appendix(es):

```
APP:RANGES
```

UPD:DUMPCORE-E

Software Release: 5E20(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To enable switching module (SM) incore memory to be dumped to a file.

Format 1 is to be used to dump SM memory to a file.

Format 2 is to be used to dump SM memory to a file using a peripheral image address.

This input message may be useful for problem resolution that involves examination of core memory. For example, if a range of memory in a certain SM is suspect, then this range of memory can be dumped to a file. Then the same range of memory in another SM of the same configuration can be dumped to a second file. Then *UNIX*® utilities can be used to compare to two files.

Format 1 is for the SM only and it does not support the primary or mate options because the mate module controller/time slot interchange (MCTSI) is continually updated [when in standby (STDBY) mode] with the contents of the active MCTSI.

With the 'PADDR' option the user is requesting to dump a physical address in an SM. When the 'VADDR' option is given, the user is requesting a virtual address which will be internally mapped to the corresponding physical address in the requested SM.

Format 2 is for the SM only and does not support the mate option. This format is useful when the user wishes to dump SM memory based on a peripheral image address. This will get internally mapped to the corresponding physical address in the requested SM.

The file that is created is a data file and can not be examined with tools or editors that expect American standard code for information interchange (ASCII) text input.

WARNING: The amount of data that can be dumped is not restricted. The size of the output file will be the number of bytes that are specified after the L option. Thus all output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with other routine activities.

2. FORMAT

```
[1]    UPD:DUMPCORE:DATA,SM=a,{PADDR=c|VADDR=c},L=d,OUTFILE=e;
       ____________________________________________________

[2]    UPD:DUMPCORE:DATA,SM=a,PERF=b,PADDR=c,L=d,OUTFILE=e;
       ____________________________________________________
```

3. EXPLANATION OF MESSAGE

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`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Targets. Refer to the APP:TARGETS appendix in the Appendixes section of the Input Messages manual.

`c` = Address to start memory dump at.

`d` = Number of bytes to dump from core memory.

`e` = Full path name to the output file used to store the data dumped from core memory.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the dump of incore memory has begun. This will be followed by a completion message when the dump successfully finishes.

5. REFERENCES

Output Message(s):

`UPD:DUMPCORE`

Input Appendix(es):

`APP:RANGES`
`APP:TARGETS`

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UPD:EXPAND

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the software update expansion process that takes place automatically during the download of a compressed software update (SU) be manually stopped (STOP), or requests that any compressed files in the software update specified (UPNM=a) be expanded to their original size so that software update application may begin immediately.

Note: the manual expansion is needed only if expansion was previously inhibited (through use of the STOP option), or if the expansion for the SU was previously aborted.

2. FORMAT

```
UPD:EXPAND:{UPNM="a"|STOP};
```

3. EXPLANATION OF MESSAGE

a	= The software update name. All files in the software update package specified will be expanded to the original file size so that software update application may follow.

4. SYSTEM RESPONSE

OK	= Good. The request has been accepted. Followed by a UPD:EXPAND output message.

5. REFERENCES

Input Message(s):

```
IN:REMOTE-REPT
UPD:CSCANS-REPT
```

Output Message(s):

```
IN:REMOTE
IN:REMOTE-ERROR
IN:REMOTE-INIT
IN:REMOTE-START
IN:REMOTE-STOP
UPD:EXPAND
UPD:CSCANS-REPT
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:FLASH-DFC

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests a download of a pumpcode file into a small computer system interface (SCSI) device file controller's (DFC) non-volatile FLASH memory.

The input message can be used to request a download in three different ways.

- Request the DFC driver automatically perform a download using a disk file constructed from fields in the DFC UCB record.
- Request the DFC driver automatically perform a download using a disk file constructed from version information stored in HA memory.
- Request that a user specified file be downloaded.

The input message can also be used to check the integrity of a pumpcode file that is stored as a disk file.

Note: When the downloading is to be done automatically by the DFC driver; the driver will use the information stored in the DFC's UCB record to build the pumpcode file name. The file specified in the UCB record must exist in the directory /dfc, and the file name derived from the UCB record has the format 'xyz', where 'x' is the 4-alphanumeric characters packcode value (that is, u580) stored in the packcode field of the UCB, 'y' is the 1-digit value stored in the version field of the specified DFC's UCB, and 'z' is the 1-digit value stored in the issue field of the UCB. An example of a typical pumpcode file name is u58090; the pumpcode version implied by this filename is 9, the pumpcode issue is 0, and the packcode number is u580.

2. FORMAT

```
[1]    UPD:FLASH;DFC a;

[2]    UPD:FLASH;DFC a:DATA,FN= "b"[,CHECKSUM];
```

3. EXPLANATION OF MESSAGE

`CHECKSUM` = When this option is used, the integrity of the pumpcode contained in the specified file will be verified; no pumpcode downloading will occur.

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Full pathname that specifies the pumpcode file to be downloaded into SCSI DFC or to be checked for the integrity of its data.

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a UPD:FLASH-DFC output message.

5. REFERENCES

Output Message(s):

`UPD:FLASH-DFC`

Input Appendix(es):

`APP:RANGES`

MCC Display Page(s):

DISK FILE SYSTEM ACCESS

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UPD:FLASH

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests an update of flash random access memory (RAM) on a specified peripheral controller (PC). Flash is a device designed to be programmed in a system with a standard 5V or 12V supply required for write or erase operations.

2. FORMAT

```
UPD:FLASH:a=b;
```

3. EXPLANATION OF MESSAGE

`a` = Member name. Valid value(s):
`HSDC`
`MTTYC`
`SCSDC`
`SDLC`
`TTYC`

`b` = Member number (0-255).

4. SYSTEM RESPONSE

`?E` = Invalid verb (system expecting UPD), missing or invalid keyword or data.

`?I` = Invalid data, missing data, or extra key word in the first, second, or third parameter or data blocks.

`NG` = No good. Cannot enable messages, access equipment configuration database (ECD), or PC is in a wrong state to process the input message. PC must be in the out-of-service (OOS) state, and its peripheral interface controller (IOP) must be in the active (ACT) state.

`PF` = Printout follows. Followed by a UPD-FLASH output message.

5. REFERENCES

Output Message(s):

`UPD:FLASH`

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UPD:FTRC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that function information from a process file's symbol table be displayed for one to twenty five address or function entries.

The output contains the name of the file in which the function resides, the name of the function, its transfer vector address and the virtual address and size of the function. If a function does not contain a transfer vector, the transfer vector field in the output is zero. If a process file has been updated by a function replacement, new addresses for the updated functions will be printed.

Format 1 converts symbolic function names to physical addresses.

Format 2 converts physical addresses to symbolic function names.

Format 3 generates a symbolic function trace based on the stack trace addresses logged from a system integrity event.

Please note that the stack trace addresses are retrieved from the daylog file and as a result a small delay may precede the output.

2. FORMAT

```
[1]    UPD:FTRC:{FN="a"|SM="b"},FCN="c"["-c"]...,TMP=d;

[2]    UPD:FTRC:{FN="a"|SM="b"},ADDR=h'e[-h'e]...,TMP=d;

[3]    UPD:FTRC:{SM="b"|ENV="f"},EVENT=g,TMP=d;
```

3. EXPLANATION OF MESSAGE

`a` = Full path name of the object file, enclosed in double quotes. An SM filename may not be used as a valid value for this variable. This variable can not be specified if either the '`SM`' or '`ENV`' parameter is specified.

`b` = Number of the switching module (SM) if applicable. This variable can not be specified if either the '`FN`' or '`ENV`' parameter is specified.

`c` = Name of functions within the object file. A maximum of 25 function names can be specified but must be enclosed in double quotes.

`d` = If '`d`' = '`y`', indicates that the object file to be used for the conversion has a temporary SU applied to it. This option is supported only for the SM and OKP object files. If '`y`' is not specified, '`d`' = '`n`' is implied.

`e` = Physical address within a function's text space in the object file. Can specify a maximum of 25 hexadecimal addresses.

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f = Environment that the system integrity event occurred in, enclosed in double quotes. The environment should be exactly the same as the ENV field in the system integrity output report. Either upper or lower case letters can be used. Not specified if the SM parameter is specified. The ENV parameter should not be used for OSDSM type system integrity events because the OSDSM type system integrity event requires the use of the SM parameter.

g = System integrity event number.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the UPD:FTRC output message.

5. REFERENCES

Input Message(s):

UPD:APPLY-FUNCR

Output Message(s):

UPD:FTRC

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UPD:G-APPLPROC

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests execution of the application process, APPLPROC, (/prc/supr/applproc) during a retrofit or update. The application process will invoke specific input messages and retrofit tools defined for APPLPROC through the argument specified.

2. FORMAT

```
UPD:GEN:APPLPROC[,ARG="a"];
```

3. EXPLANATION OF MESSAGE

`a` = An argument string that is to be passed to the application process.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by UPD:GEN-APPL output message.

5. REFERENCES

Input Message(s):

```
OP:G-READLOG
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
```

Output Message(s):

```
OP:GEN-READLOG
UPD:GEN-APPL
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

Other Manual(s):

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Where 'x' is the release-specific version of the document.
235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*

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UPD:G-BACKOUT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administrative module (AM) be prepared for booting from the old software release if it is necessary to back out of the new software release. This message performs an AM off-line boot by default unless no AM off-line boot is requested.

2. FORMAT

```
UPD:GEN:BACKOUT[,NOFLBOOT][:UCL];
```

3. EXPLANATION OF MESSAGE

`NOFLBOOT` = Do not execute an AM off-line boot.

`UCL` = Execute unconditionally; context checks are ignored.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by UPD:GEN-BACKOUT output message.

5. REFERENCES

Input Message(s):

```
OP:G-READLOG
STOP:GEN
STP:GEN
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
```

Output Message(s):

```
OP:GEN-READLOG
STOP:GEN
STP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
```

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```
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.
235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*
235-105-44x *Large Terminal Growth*

MCC Display Page(s):

116 (MISCELLANEOUS)
124 (RETROFIT)

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UPD:G-BEGIN

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests the start of the retrofit cycle. Marks the retrofit in progress indicator on the Master Control Center (MCC) MISCELLANEOUS page (116) and marks the MISC indicator in the status summary area.

2. FORMAT

```
UPD:GEN:BEGIN,{RETRO|UPDATE|LTG}[:UCL];
```

3. EXPLANATION OF MESSAGE

`LTG` = Select large terminal growth type of software release transition.

`RETRO` = Select retrofit type of software release transition.

`UCL` = Execute unconditionally; checks for correct sequence of input messages are ignored.

`UPDATE` = Select software release update type of software release transition.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Message received and the UPD:GEN-BEGIN output message will follow.

5. REFERENCES

Input Message(s):

```
UPD:G-END
```

Output Message(s):

```
UPD:GEN-BEGIN
UPD:GEN-END
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*

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MCC Display Page(s):

116 (MISCELLANEOUS)

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UPD:G-COMMIT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests commitment to the new switch software release by duplexing the disks and completes the propagation of the new software release into the system after the soak period.

2. FORMAT

```
UPD:GEN,COMMIT[:UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute the message unconditionally; context checks are ignored.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by UPD:GEN-COMMIT output message.

5. REFERENCES

Input Message(s):

```
OP:G-READLOG
STOP:GEN
UPD:G-BACKOUT
UPD:G-CONTINUE
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
```

Output Message(s):

```
OP:GEN-READLOG
STOP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

Other Manual(s):

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Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*
235-105-44x *Large Terminal Growth*

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UPD:G-CONTINUE

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the continuation of a central processor or administrative module update process that requested a manual action using a UPD:G-[unit] output message.

This message acknowledges that the action requested has been completed. It also continues the execution of a system update process that has reported (using a UPD:G-[unit] output message) that it has stopped. The error code from the "stopped" message should be examined and any necessary corrective action taken before entering this input message.

2. FORMAT

```
UPD:GEN:CONTINUE;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by UPD:G-CONTINUE output message.

5. REFERENCES

Input Message(s):

```
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
```

Output Message(s):

```
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

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UPD:G-END

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests the completion of the retrofit cycle. Clears the retrofit indicator on the Master Control Center (MCC) MISCELLANEOUS display page and the MISC lit on the status summary page.

2. FORMAT

```
UPD:GEN:END[:UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally; ignore checks made for correct sequence of retrofit input messages.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Message received and printout will follow.

5. REFERENCES

Input Message(s):

```
UPD:G-BEGIN
```

Output Message(s):

```
UPD:GEN-BEGIN
UPD:GEN-END
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*

MCC Display Page(s):

116 (MISCELLANEOUS)

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UPD:G-ENTER

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the new software release data be entered into the administrative module. This message is the first step of the system update procedure used to introduce a new software release into the system. Up to three different sequences of load disk from tape (LDFT) formatted tapes can be used to update a disk pair. Different disk layouts on each sequence of tapes will be accepted only for the offline disk method and only if the partition affected by the different disk layout was not updated in a previous sequence.

WARNING: During partial updates, the volume table of contents (VTOC) structure for all partitions that are not updated must be identical to the disk VTOC on all tape sequences. If they are not identical, then the starting location of some of the partitions will not match their actual starting location on the disk.

2. FORMAT

```
UPD:GEN:ENTER[:UCL],{BKPRT|OFLDISK[=a][,NOBKUPD]},SRC="b",
{DEST="c"|DEST="c"[-"c"]...}[,SEQOPT=d|,SEQOPT=d[-d...]];
```

3. EXPLANATION OF MESSAGE

`BKPRT` = Backup partition method specification. This method requires that the disk layout in the new software release must be the same (such as, the VTOC partition in the new software release must be identical to the VTOC in the old software release) and all the disk partitions to be updated must have a corresponding backup partition (such as, like root/broot). The set of unused backup partitions will be updated (such as, if root is being used, broot will be updated).

`NOBKUPD` = Do not update backup partitions during off-line disk update procedures.

`OFLDISK` = Off-line disk method specification. This method requires that each disk pair to be updated must be duplex (such as, both disks active). One of the disks will be removed from service and the new software release data will be copied to this disk. The disk will also be marked off-line.

`UCL` = Execute unconditionally. If this option is not specified, the system update log file must be empty or removed. (The log file is in "/etc/log/suprlog". Refer to OP:G-READLOG).

`a` = Unit number of the disk file controller (DFC). Used to determine which moving head disk (MHD) unit(s) will be taken off-line (for the off-line disk method). If omitted, DFC 1 will be selected.

`b` = Special device file name that specifies the input magnetic tape. The name of the tape unit is of the form /dev/mtnn or mt?, where nn is a two-digit hexadecimal number and ? is the MTC controller number.

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`c` = Special device file name that specifies the volume table of contents (VTOC) for the disk to be updated. Up to ten destinations may be specified. The file name (full pathname) cannot be greater than 40 characters long. Refer to the ECD/SG manual.

`d` = Tape sequence options that are to be used for each destination that was specified. Valid value(s):

`DBL` = update a disk using a double sequence of tapes
`SGL` = update a disk using a single sequence of tapes
`TPL` = update a disk using a triple sequence of tapes

If a sequence option is not specified at all (the SEQOPT keyword is not used on the input message line), the default values are used (double sequence for the bootdisk, single sequence for non-bootdisks). If default tape sequence options are not desired for all destinations, then all the tape sequence options must be specified (even the tape sequences using default values). If tape sequence options are specified, the number of specified tape sequence options must equal the number of specified destinations. The maximum number of tape sequence options allowed on the enter input message line is ten.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by UPD:G-ENTER output message.

5. REFERENCES

Input Message(s):

```
OP:G-READLOG
STOP:GEN
STP:GEN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-PROCEED
UPD:G-RESTORE
```

Output Message(s):

```
OP:GEN-READLOG
STOP:GEN
STP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

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Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*
235-105-44x *Large Terminal Growth*
235-600-30x *ECD/SG*

MCC Display Page(s):

116 (MISCELLANEOUS)
124 (RETROFIT)

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UPD:G-PROCEED

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administrative module (AM) be prepared for booting from the new software release. This message performs an AM off-line boot by default unless no AM off-line boot is requested.

Note: This message must be executed after the UPD:G-ENTER input message.

2. FORMAT

```
UPD:GEN:PROCEED[,NOFLBOOT][:UCL];
```

3. EXPLANATION OF MESSAGE

`NOFLBOOT` = Do not execute an AM off-line boot.

`UCL` = Execute unconditionally; ignore context checks. If this option is specified, it will be ignored unless the previous step (entering UPD:G-ENTER) was not completed successfully.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by UPD:GEN-PROCEED output message.

5. REFERENCES

Input Message(s):

```
OP:G-READLOG
STOP:GEN
STP:GEN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-ENTER
UPD:G-RESTORE
```

Output Message(s):

```
OP:GEN-READLOG
STOP:GEN
STP:GEN
UPD:GEN-BACKOUT
```

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```
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*
235-105-44x *Large Terminal Growth*

MCC Display Page(s):

116 (MISCELLANEOUS)
124 (RETROFIT)

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UPD:G-RESTORE

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the old software release be restored by removing the new software release from the administrative module (AM).

This message should be started after the UPD:G-ENTER and UPD:G-PROCEED messages have completed successfully. If either message did not complete successfully, then the unconditional option should be used. Using this message without the UCL option will produce an error even after a successful `PROCEED`. Only unconditional restores are valid. If the new software release was introduced using the backup partition method (UPD:G-ENTER), the disk to be updated and its mate must be active, even if only one of them was updated. For example, if moving head disk 0 (MHD0) was updated, then moving head disk 1 (MHD1) should be restored before this message is executed.

2. FORMAT

```
UPD:GEN:RESTORE[:UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally; ignore context checks. If this option is specified, it will be ignored if the previous step (entering UPD:G-PROCEED) was completed successfully.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`PF` = Printout follows. Followed by UPD:GEN-RESTORE output message.

5. REFERENCES

Input Message(s):

```
OP:G-READLOG
STOP:GEN
STP:GEN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-ENTER
UPD:G-PROCEED
```

Output Message(s):

```
OP:GEN-READLOG
```

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```
STOP:GEN
STP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
```

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UPD:G-SMBKOUT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 1 to side 0 and perform an SM retrofit initialization during a retrofit or software release update.

2. FORMAT

```
UPD:GEN:SMBKOUT,SM=a[&&b][,LSM][,HSM][,RSM][,ORM][,TRM][:UCL];
```

3. EXPLANATION OF MESSAGE

`HSM` = Select modules of the type host switching module.

`LSM` = Select modules of the type local switching module.

`ORM` = Select modules of the type optical remote switching module.

`RSM` = Select modules of the type remote switching module.

`TRM` = Select modules of the type two-mile optical remote switching module.

`UCL` = Execute unconditionally; checks for existence of the APPLHOOK log file created by the UPD:G-BEGIN input message, the retrofit indicator on the Master Control Center (MCC) page 116, and that MCTSI side 0 is offline pumped are ignored.

`a` = SM number or lower limit of a range of SM numbers.

`b` = Upper limit of the range of SM numbers to be inhibited.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`OK` = Good.

5. REFERENCES

Input Message(s):

```
UPD:G-BEGIN
UPD:G-END
UPD:G-SMSWITCH
UPD:G-SWITCHBCK
UPD:G-SWITCHFWD
```

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Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*

MCC Display Page(s):

116 (MISCELLANEOUS)

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UPD:G-SMSWITCH

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 0 to side 1 and perform an SM retrofit initialization during a retrofit or update.

2. FORMAT

```
UPD:GEN:SMSWITCH,SM=a[&&b][,LSM][,HSM][,RSM][,ORM][,TRM][:UCL];
```

3. EXPLANATION OF MESSAGE

`HSM` = Select modules of the type host switching module.

`LSM` = Select modules of the type local switching module.

`ORM` = Select modules of the type optical remote switching module.

`RSM` = Select modules of the type remote switching module.

`TRM` = Select modules of the type two mile optically remote switching module.

`UCL` = Execute unconditionally. The following checks are ignored: checks for existence of the APPLHOOK log file created by the UPD:G-BEGIN input message, checks of the retrofit indicator on the Master Control Center (MCC) MISCELLANEOUS page, checks that SMs are on MCTSI side 0, and checks that MCTSI side 1 is offline pumped.

`a` = SM number or lower limit of a range of SM numbers.

`b` = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`OK` = Good. Request accepted.

5. REFERENCES

Input Message(s):

```
UPD:G-BEGIN
UPD:G-END
UPD:G-SMBKOUT
UPD:G-SWITCHBCK
```

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```
UPD:G-SWITCHFWD
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*

MCC Display Page(s):

116 (MISCELLANEOUS)

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UPD:G-SWITCHBCK

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests a retrofit switch and initialization on switching modules (SMs) that were switched by the UPD:G-SWITCHFWD input message during a retrofit or update.

2. FORMAT

```
UPD:GEN:SWITCHBCK[:UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Execute unconditionally; checks for existence of the APPLHOOK log file created by the UPD:G-BEGIN input message and the retrofit indicator on the Master Control Center (MCC) MISCELLANEOUS page are ignored.

4. SYSTEM RESPONSE

`NG` = No good. Process not initiated.

`OK` = Good. Request accepted.

5. REFERENCES

Input Message(s):

```
UPD:G-BEGIN
UPD:G-END
UPD:G-SMBKOUT
UPD:G-SMSWITCH
UPD:G-SWITCHFWD
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*

MCC Display Page(s):

116 (MISCELLANEOUS)

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UPD:G-SWITCHFWD

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests a retrofit switch and initialization of switching modules (SMs) that are offline pumped and forced during a retrofit or update.

2. FORMAT

```
UPD:GEN:SWITCHFWD[:UCL];
```

3. EXPLANATION OF MESSAGE

UCL = Execute unconditionally. The following checks are ignored: checks for existence of the APPLHOOK log file created by the UPD:G-BEGIN input message, checks of the retrofit indicator on the Master Control Center (MCC) MISCELLANEOUS page, and checks that the retrofit PROCEED stage has completed successfully.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.

OK = Good. Request completed.

5. REFERENCES

Input Message(s):

```
UPD:G-BEGIN
UPD:G-END
UPD:G-SMBKOUT
UPD:G-SMSWITCH
UPD:G-SWITCHBCK
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*

MCC Display Page(s):

116 (MISCELLANEOUS)

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UPD:G-TSM

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests the collection and logging of current out-of-service (OOS) trunks and their statuses during a software release transition (retrofit, update, or large terminal growth).

2. FORMAT

```
UPD:GEN:TSM,{OLD|NEW|RMV}[:UCL];
```

3. EXPLANATION OF MESSAGE

`NEW` = Gather trunk OOS data on destination/new software release.

`OLD` = Gather trunk OOS data on source/old software release.

`RMV` = Remove trunks from service that were previously OOS, but were in service after the transition.

`UCL` = Execute unconditionally. This will overwrite existing port_OOS files.

4. SYSTEM RESPONSE

`NG` = No good. Trunk status mapping (TSM) process not initiated.

`PF` = Printout follows. Message was received and the UPD:GEN-TSM output message will follow.

5. REFERENCES

Output Message(s):

`UPD:GEN-TSM`

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x *Software Release Retrofit*
235-105-34x *Software Release Update*
235-105-44x *Large Terminal Growth Procedures*

MCC Display Page(s):

124 (RETROFIT)

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UPD:GENP

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

To manually control the generation of update files (ufiles) and product files (pfiles) generated by the UPgenpcc process. If UPD:GENP:STOP is used, all files generated up to this point will remain. Pfile and ufile generation will continue with the UPD:GENP:RESUME input message. If UPD:GENP:QUIT is used, all files that have been generated so far will be deleted unconditionally.

2. FORMAT

```
UPD:GENP:{STOP|RESUME|QUIT};
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by a UPD output message.

`RL` = Retry later.

5. REFERENCES

Output Message(s):

```
UPD:GENPCC
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:HSCHK-A

Software Release: 5E15 only
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To verify the integrity of the disk and core images for hash sum protected products.

Format 1 is used to perform hash sum checking on ALL of the hashsum protected products, a specific switching module (SM), or a specific target [such as, SM, integrated services line unit (ISLU), and so forth].

Format 2 is used to perform hash sum checking on a specific text file and it's associated hash sum file.

Format 3 is used to perform hash sum checking on a specific communications module processor (CMP).

This check is scheduled by cron to run daily on all text [not office-dependent data (ODD) products in the switch that have associated hash sum files. There are two major checks that are done. First the disk image is verified by calculating the hash sums over the entire image and comparing them with the sums stored in the associated hash sum files. The second check is to compare (not calculate) the disk hash sums with the core hash sums. These two checks, coupled with the routine incore hash sum checking, provide a comprehensive audit to guarantee integrity of the hash sum protected products.

This input message is provided so that hash sum checking can be invoked manually. There are several different options that are provided to narrow the focus of the check to a specific SM or CMP, a specific target (such as, ISLU), a particular configuration, or a particular file.

During routine (scheduled from cron) hash sum verification, the only messages that are seen are the beginning message, and the completion message. However, if an error is found, additional messages will provide information on the error(s) that were found. The hash sum check is more verbose if it is being run in response to the input message. In this case it will report when it is beginning the disk hash sum check for each specified target.

Regardless of how the audit is requested (manually or routinely), disk hash sum errors are reported with a ROP message, a major alarm, and the switching module processor (SMP)/ CMP FILE indicator on MCC Display Page 116 will read HASHERR.

When this input message is run with only the ALL option and it does not find any errors, it will reset MCC Display Page 116 to normal.

WARNING: In the event that hash sum mismatches are found, corrective action should be taken immediately to prevent potential service impacting problems. Detailed procedures for correcting hash sum error problems are given in the Corrective Maintenance Manual. However, these should only be performed by trained and qualified personnel.

2. FORMAT

```
[1]    UPD:HSCHK:{SM=b|TARGET=c|ALL}[,OUTFILE=f|REPT][,DISK|CORE];
```

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```
[2]    UPD:HSCHK:FN=d,DF=e,TARGET=c[,OUTFILE=f];

[3]    UPD:HSCHK:CMP=a,{PRIM|MATE}[,OUTFILE=f][,DISK|CORE];
```

3. EXPLANATION OF MESSAGE

ALL = Run the audit on all of the above targets,

CORE = If the CORE option is specified, then only incore hash sum checking is performed. The default is to do both disk and core hash sum checking.

DISK = If the DISK option is specified, then only disk hash sum checking is performed. The default is to do both disk and core hash sum checking.

REPT = The REPT option allows a user to request a summary report of any incore hash sum mismatches that occurred from a previous run of the audit. If the REPT option is specified, then no hash sum checking is performed. he only action that is performed is to look at the SM(s)/CMP(s) that mismatched and report the targets where errors were found. This is especially useful to quickly determine which targets encountered problems in a given SM. For example, if SM 3 is showing a D/C HASH status (on MCC Display Page 1800 or MCC Display pages 141-144), the hash sum mismatch could of occurred in the SM text file (IM.out) or in any of the peripherals that are supported in that configuration (such as, LDSU, RAF, and so forth). The REPT option will report all of the targets that had hash sum mismatches.

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Valid value(s):

```
CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCUDLP
IDCULSI
IP3S
IP4F
IP4I
IP4IF
ISLU
ISLU2
```

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```
ISTF
LDSU
LDSF
MSGH
ODMA
OIOP
PH2A
PH2G
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PI
PI2
PHV1C
PHV3C
PHV4C
RAF
SAS
SM
SM2K
SMPMH
SMPMHLB
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
```

d = The FN option is provided to allow hash sum checking on files that are not supported in the list of targets above. If the FN option is specified, then the DF must also be provided to indicate the hash sum file. The intent of this option is to allow for DISK hash sum verification on files that reside in temporary locations. If the FN option is used, no incore hash sum checking is done. The full path name to the file is required.

e = Hash sum file associated with the argument to the FN parameter. The DF option is required when the FN option is used. The full path name to the file is required.

f = Full path name to the output file. When this option is specified, then the output of the audit is sent to the specified file rather than the ROP and the originating terminal. This allows for more verbose output from the audit since the amount of output to the ROP is restricted. The OUTFILE option provides additional information to assist technical support in the resolution of hashsum mismatch problems. All output files should only be placed in file systems that are

designed to hold temporary files. Creating files in other file systems may interfere with routine activities in the switch. These files should be removed when they are no longer needed.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the audit has been scheduled. Followed by one or more UPD:HSCHK output messages.

5. REFERENCES

Output Message(s):

`UPD:HSCHK`
`UPD:SYSERR`
`UPD:USRERR`
`UPD:INFO`

Input Appendix(es):

`APP:RANGES`

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

116	MISCELLANEOUS
141-144	SM 1 THROUGH SM 192 STATUS
1800	SM X INHIBIT AND RECOVERY CONTROL

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UPD:HSCHK-B

Software Release: 5E16(1) only
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To verify the integrity of the disk and core images for hash sum protected products.

Format 1 is used to perform hash sum checking on ALL of the hashsum protected products, a specific switching module (SM), or a specific target [such as, SM, integrated services line unit (ISLU), and so forth].

Format 2 is used to perform hash sum checking on a specific text file and it's associated hash sum file.

Format 3 is used to perform hash sum checking on a specific communications module processor (CMP).

This check is scheduled by cron to run daily on all text [not office-dependent data (ODD) products in the switch that have associated hash sum files. There are two major checks that are done. First the disk image is verified by calculating the hash sums over the entire image and comparing them with the sums stored in the associated hash sum files. The second check is to compare (not calculate) the disk hash sums with the core hash sums. These two checks, coupled with the routine incore hash sum checking, provide a comprehensive audit to guarantee integrity of the hash sum protected products.

This input message is provided so that hash sum checking can be invoked manually. There are several different options that are provided to narrow the focus of the check to a specific SM or CMP, a specific target (such as, ISLU), a particular configuration, or a particular file.

During routine (scheduled from cron) hash sum verification, the only messages that are seen are the beginning message, and the completion message. However, if an error is found, additional messages will provide information on the error(s) that were found. The hash sum check is more verbose if it is being run in response to the input message. In this case it will report when it is beginning the disk hash sum check for each specified target.

Regardless of how the audit is requested (manually or routinely), disk hash sum errors are reported with a ROP message, a major alarm, and the switching module processor (SMP)/ CMP FILE indicator on MCC Display Page 116 will read HASHERR.

When this input message is run with only the ALL option and it does not find any errors, it will reset MCC Display Page 116 to normal.

WARNING: In the event that hash sum mismatches are found, corrective action should be taken immediately to prevent potential service impacting problems. Detailed procedures for correcting hash sum error problems are given in the Corrective Maintenance Manual. However, these should only be performed by trained and qualified personnel.

2. FORMAT

```
[1]    UPD:HSCHK:{SM=b|TARGET=c|ALL}[,OUTFILE=f|REPT][,DISK|CORE];
```

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```
[2]    UPD:HSCHK:FN=d,DF=e,TARGET=c[,OUTFILE=f];

[3]    UPD:HSCHK:CMP=a,{PRIM|MATE}[,OUTFILE=f][,DISK|CORE];
```

3. EXPLANATION OF MESSAGE

ALL = Run the audit on all of the above targets,

CORE = If the CORE option is specified, then only incore hash sum checking is performed. The default is to do both disk and core hash sum checking.

DISK = If the DISK option is specified, then only disk hash sum checking is performed. The default is to do both disk and core hash sum checking.

REPT = The REPT option allows a user to request a summary report of any incore hash sum mismatches that occurred from a previous run of the audit. If the REPT option is specified, then no hash sum checking is performed. he only action that is performed is to look at the SM(s)/CMP(s) that mismatched and report the targets where errors were found. This is especially useful to quickly determine which targets encountered problems in a given SM. For example, if SM 3 is showing a D/C HASH status (on MCC Display Page 1800 or MCC Display pages 141-144), the hash sum mismatch could of occurred in the SM text file (IM.out) or in any of the peripherals that are supported in that configuration (such as, LDSU, RAF, and so forth). The REPT option will report all of the targets that had hash sum mismatches.

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Valid value(s):

```
CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCUDLP
IDCULSI
IP22
IP3S
IP4F
IP4I
```

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IP4IF
ISLU
ISLU2
ISTF
LDSU
LDSF
MH32
MHEIB
MHLB
MHPPC
MHPPCLB
MSGH
ODMA
OIOP
OIU24
PH2A
PH2G
PH22I
PH22S
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PHA2A
PHE2E
PI
PI2
PHV1C
PHV3C
PHV4C
PHV5C
RAF
SAS
SM
SM2K
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
V5D13K
V5D8K
V5DACP
V5DEVR1
V5DEVR2
V5DEVR3
V5DVSP
V5DISL

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`d` = The FN option is provided to allow hash sum checking on files that are not supported in the list of targets above. If the FN option is specified, then the DF must also be provided to indicate the hash sum file. The intent of this option is to allow for DISK hash sum verification on files that reside in temporary locations. If the FN option is used, no incore hash sum checking is done. The full path name to the file is required.

`e` = Hash sum file associated with the argument to the FN parameter. The DF option is required when the FN option is used. The full path name to the file is required.

`f` = Full path name to the output file. When this option is specified, then the output of the audit is sent to the specified file rather than the ROP and the originating terminal. This allows for more verbose output from the audit since the amount of output to the ROP is restricted. The OUTFILE option provides additional information to assist technical support in the resolution of hashsum mismatch problems. All output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with routine activities in the switch. These files should be removed when they are no longer needed.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the audit has been scheduled. Followed by one or more UPD:HSCHK output messages.

5. REFERENCES

Output Message(s):

```
UPD:HSCHK
UPD:SYSERR
UPD:USRERR
UPD:INFO
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

116	MISCELLANEOUS
141-144	SM 1 THROUGH SM 192 STATUS
1800	SM X INHIBIT AND RECOVERY CONTROL

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UPD:HSCHK-C

Software Release: 5E16(2) - 5E17(1)
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To verify the integrity of the disk and core images for hash sum protected products.

Format 1 is used to perform hash sum checking on ALL of the hashsum protected products, a specific switching module (SM), or a specific target [such as, SM, integrated services line unit (ISLU), and so forth].

Format 2 is used to perform hash sum checking on a specific text file and it's associated hash sum file.

Format 3 is used to perform hash sum checking on a specific communications module processor (CMP).

This check is scheduled by cron to run daily on all text [not office-dependent data (ODD) products in the switch that have associated hash sum files. There are two major checks that are done. First the disk image is verified by calculating the hash sums over the entire image and comparing them with the sums stored in the associated hash sum files. The second check is to compare (not calculate) the disk hash sums with the core hash sums. These two checks, coupled with the routine incore hash sum checking, provide a comprehensive audit to guarantee integrity of the hash sum protected products.

This input message is provided so that hash sum checking can be invoked manually. There are several different options that are provided to narrow the focus of the check to a specific SM or CMP, a specific target (such as, ISLU), a particular configuration, or a particular file.

During routine (scheduled from cron) hash sum verification, the only messages that are seen are the beginning message, and the completion message. However, if an error is found, additional messages will provide information on the error(s) that were found. The hash sum check is more verbose if it is being run in response to the input message. In this case it will report when it is beginning the disk hash sum check for each specified target.

Regardless of how the audit is requested (manually or routinely), disk hash sum errors are reported with a ROP message, a major alarm, and the switching module processor (SMP)/ CMP FILE indicator on MCC Display Page 116 will read HASHERR.

When this input message is run with only the ALL option and it does not find any errors, it will reset MCC Display Page 116 to normal.

WARNING: In the event that hash sum mismatches are found, corrective action should be taken immediately to prevent potential service impacting problems. Detailed procedures for correcting hash sum error problems are given in the Corrective Maintenance Manual. However, these should only be performed by trained and qualified personnel.

2. FORMAT

```
[1]    UPD:HSCHK:{SM=b|TARGET=c|ALL}[,OUTFILE=f|REPT][,DISK|CORE];
```

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```
[2]    UPD:HSCHK:FN=d,DF=e,TARGET=c[,OUTFILE=f];
```

```
[3]    UPD:HSCHK:CMP=a,{PRIM|MATE}[,OUTFILE=f][,DISK|CORE];
```

---

3. EXPLANATION OF MESSAGE

ALL = Run the audit on all of the above targets,

CORE = If the CORE option is specified, then only incore hash sum checking is performed. The default is to do both disk and core hash sum checking.

DISK = If the DISK option is specified, then only disk hash sum checking is performed. The default is to do both disk and core hash sum checking.

REPT = The REPT option allows a user to request a summary report of any incore hash sum mismatches that occurred from a previous run of the audit. If the REPT option is specified, then no hash sum checking is performed. he only action that is performed is to look at the SM(s)/CMP(s) that mismatched and report the targets where errors were found. This is especially useful to quickly determine which targets encountered problems in a given SM. For example, if SM 3 is showing a D/C HASH status (on MCC Display Page 1800 or MCC Display pages 141-144), the hash sum mismatch could of occurred in the SM text file (IM.out) or in any of the peripherals that are supported in that configuration (such as, LDSU, RAF, and so forth). The REPT option will report all of the targets that had hash sum mismatches.

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Target. Valid value(s):

```
CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCUDLP
IDCULSI
IP22
IP3S
IP4F
IP4I
```

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IP4IF
ISLU
ISLU2
ISTF
LDSU
LDSF
MH32
MHEIB
MHLB
MHPPC
MHPPCLB
MSGH
ODMA
OIOP
OIU24
OIUIP
PH2A
PH2G
PH22I
PH22S
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PHA2A
PHE2E
PI
PI2
PHV1C
PHV3C
PHV4C
PHV5C
RAF
SAS
SM
SM2K
SM2KFX
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
V5D13K
V5D8K
V5DACP
V5DEVR1
V5DEVR2
V5DEVR3

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```
V5DVSP
V5DISL
```

`d` = The FN option is provided to allow hash sum checking on files that are not supported in the list of targets above. If the FN option is specified, then the DF must also be provided to indicate the hash sum file. The intent of this option is to allow for DISK hash sum verification on files that reside in temporary locations. If the FN option is used, no incore hash sum checking is done. The full path name to the file is required.

`e` = Hash sum file associated with the argument to the FN parameter. The DF option is required when the FN option is used. The full path name to the file is required.

`f` = Full path name to the output file. When this option is specified, then the output of the audit is sent to the specified file rather than the ROP and the originating terminal. This allows for more verbose output from the audit since the amount of output to the ROP is restricted. The OUTFILE option provides additional information to assist technical support in the resolution of hashsum mismatch problems.

WARNING: All output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with routine activities in the switch. These files should be removed when they are no longer needed.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the audit has been scheduled. Followed by one or more UPD:HSCHK output messages.

5. REFERENCES

Output Message(s):

```
UPD:HSCHK
UPD:SYSERR
UPD:USRERR
UPD:INFO
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
116 MISCELLANEOUS
141-144 SM 1 THROUGH SM 192 STATUS
1800 SM X INHIBIT AND RECOVERY CONTROL

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UPD:HSCHK--D

Software Release: 5E18(1) only
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To verify the integrity of the disk and core images for hash sum protected products.

Format 1 is used to perform hash sum checking on ALL of the hashsum protected products, a specific switching module (SM), or a specific target [such as, SM, integrated services line unit (ISLU), and so forth].

Format 2 is used to perform hash sum checking on a specific text file and it's associated hash sum file.

Format 3 is used to perform hash sum checking on a specific communications module processor (CMP).

This check is scheduled by cron to run daily on all text [not office-dependent data (ODD) products in the switch that have associated hash sum files. There are two major checks that are done. First the disk image is verified by calculating the hash sums over the entire image and comparing them with the sums stored in the associated hash sum files. The second check is to compare (not calculate) the disk hash sums with the core hash sums. These two checks, coupled with the routine incore hash sum checking, provide a comprehensive audit to guarantee integrity of the hash sum protected products.

This input message is provided so that hash sum checking can be invoked manually. There are several different options that are provided to narrow the focus of the check to a specific SM or CMP, a specific target (such as, ISLU), a particular configuration, or a particular file.

During routine (scheduled from cron) hash sum verification, the only messages that are seen are the beginning message, and the completion message. However, if an error is found, additional messages will provide information on the error(s) that were found. The hash sum check is more verbose if it is being run in response to the input message. In this case it will report when it is beginning the disk hash sum check for each specified target.

Regardless of how the audit is requested (manually or routinely), disk hash sum errors are reported with a ROP message, a major alarm, and the switching module processor (SMP)/ CMP FILE indicator on MCC Display Page 116 will read HASHERR.

When this input message is run with only the ALL option and it does not find any errors, it will reset MCC Display Page 116 to normal.

WARNING: In the event that hash sum mismatches are found, corrective action should be taken immediately to prevent potential service impacting problems. Detailed procedures for correcting hash sum error problems are given in the Corrective Maintenance Manual. However, these should only be performed by trained and qualified personnel.

2. FORMAT

```
[1]    UPD:HSCHK:{SM=b|TARGET=c|ALL}[,OUTFILE=f|REPT][,DISK|CORE];
```

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```
[2]    UPD:HSCHK:FN=d,DF=e,TARGET=c[,OUTFILE=f];
```

```
[3]    UPD:HSCHK:CMP=a,{PRIM|MATE}[,OUTFILE=f][,DISK|CORE];
```

---

3. EXPLANATION OF MESSAGE

ALL = Run the audit on all of the above targets,

CORE = If the CORE option is specified, then only incore hash sum checking is performed. The default is to do both disk and core hash sum checking.

DISK = If the DISK option is specified, then only disk hash sum checking is performed. The default is to do both disk and core hash sum checking.

REPT = The REPT option allows a user to request a summary report of any incore hash sum mismatches that occurred from a previous run of the audit. If the REPT option is specified, then no hash sum checking is performed. he only action that is performed is to look at the SM(s)/CMP(s) that mismatched and report the targets where errors were found. This is especially useful to quickly determine which targets encountered problems in a given SM. For example, if SM 3 is showing a D/C HASH status (on MCC Display Page 1800 or MCC Display pages 141-144), the hash sum mismatch could of occurred in the SM text file (IM.out) or in any of the peripherals that are supported in that configuration (such as, LDSU, RAF, and so forth). The REPT option will report all of the targets that had hash sum mismatches.

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Target. Valid value(s):

```
CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCUDLP
IDCULSI
IP22
IP3S
IP4F
IP4I
```

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IP4IF
ISLU
ISLU2
ISTF
LDSU
LDSF
MH32
MHEIB
MHLB
MHPPC
MHPPCLB
MSGH
ODMA
OIOP
OIU24
OIUIP
PH2A
PH2G
PH22I
PH22S
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PHA2A
PHE2E
PI
PI2
PHV1C
PHV3C
PHV4C
PHV5C
RAF
SAS
SM
SM2K
SM2KFX
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
V5D13K
V5D8K
V5DACP
V5DEVR1
V5DEVR2
V5DEVR3

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```
V5DVSP
V5DISL
```

`d` = The FN option is provided to allow hash sum checking on files that are not supported in the list of targets above. If the FN option is specified, then the DF must also be provided to indicate the hash sum file. The intent of this option is to allow for DISK hash sum verification on files that reside in temporary locations. If the FN option is used, no incore hash sum checking is done. The full path name to the file is required.

`e` = Hash sum file associated with the argument to the FN parameter. The DF option is required when the FN option is used. The full path name to the file is required.

`f` = Full path name to the output file. When this option is specified, then the output of the audit is sent to the specified file rather than the ROP and the originating terminal. This allows for more verbose output from the audit since the amount of output to the ROP is restricted. The OUTFILE option provides additional information to assist technical support in the resolution of hashsum mismatch problems.

WARNING: All output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with routine activities in the switch. These files should be removed when they are no longer needed.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the audit has been scheduled. Followed by one or more UPD:HSCHK output messages.

5. REFERENCES

Output Message(s):

```
UPD:HSCHK
UPD:SYSERR
UPD:USRERR
UPD:INFO
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
116 MISCELLANEOUS
141-144 SM 1 THROUGH SM 192 STATUS
1800 SM X INHIBIT AND RECOVERY CONTROL

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UPD:HSCHK-E

Software Release: 5E19(1) only
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To verify the integrity of the disk and core images for hash sum protected products.

Format 1 is used to perform hash sum checking on ALL of the hashsum protected products, a specific switching module (SM), or a specific target [such as, SM, integrated services line unit (ISLU), and so forth].

Format 2 is used to perform hash sum checking on a specific text file and it's associated hash sum file.

Format 3 is used to perform hash sum checking on a specific communications module processor (CMP).

This check is scheduled by cron to run daily on all text [not office-dependent data (ODD) products in the switch that have associated hash sum files. There are two major checks that are done. First the disk image is verified by calculating the hash sums over the entire image and comparing them with the sums stored in the associated hash sum files. The second check is to compare (not calculate) the disk hash sums with the core hash sums. These two checks, coupled with the routine incore hash sum checking, provide a comprehensive audit to guarantee integrity of the hash sum protected products.

This input message is provided so that hash sum checking can be invoked manually. There are several different options that are provided to narrow the focus of the check to a specific SM or CMP, a specific target (such as, ISLU), a particular configuration, or a particular file.

During routine (scheduled from cron) hash sum verification, the only messages that are seen are the beginning message, and the completion message. However, if an error is found, additional messages will provide information on the error(s) that were found. The hash sum check is more verbose if it is being run in response to the input message. In this case it will report when it is beginning the disk hash sum check for each specified target.

Regardless of how the audit is requested (manually or routinely), disk hash sum errors are reported with a ROP message, a major alarm, and the switching module processor (SMP)/ CMP FILE indicator on MCC Display Page 116 will read HASHERR.

When this input message is run with only the ALL option and it does not find any errors, it will reset MCC Display Page 116 to normal.

WARNING: In the event that hash sum mismatches are found, corrective action should be taken immediately to prevent potential service impacting problems. Detailed procedures for correcting hash sum error problems are given in the Corrective Maintenance Manual. However, these should only be performed by trained and qualified personnel.

2. FORMAT

```
[1]    UPD:HSCHK:{SM=b|TARGET=c|ALL}[,OUTFILE=f|REPT][,DISK|CORE];
```

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```
[2]    UPD:HSCHK:FN=d,DF=e,TARGET=c[,OUTFILE=f];
```

```
[3]    UPD:HSCHK:CMP=a,{PRIM|MATE}[,OUTFILE=f][,DISK|CORE];
```

---

3. EXPLANATION OF MESSAGE

ALL = Run the audit on all of the above targets,

CORE = If the CORE option is specified, then only incore hash sum checking is performed. The default is to do both disk and core hash sum checking.

DISK = If the DISK option is specified, then only disk hash sum checking is performed. The default is to do both disk and core hash sum checking.

REPT = The REPT option allows a user to request a summary report of any incore hash sum mismatches that occurred from a previous run of the audit. If the REPT option is specified, then no hash sum checking is performed. he only action that is performed is to look at the SM(s)/CMP(s) that mismatched and report the targets where errors were found. This is especially useful to quickly determine which targets encountered problems in a given SM. For example, if SM 3 is showing a D/C HASH status (on MCC Display Page 1800 or MCC Display pages 141-144), the hash sum mismatch could of occurred in the SM text file (IM.out) or in any of the peripherals that are supported in that configuration (such as, LDSU, RAF, and so forth). The REPT option will report all of the targets that had hash sum mismatches.

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Target. Valid value(s):

```
CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCUDLP
IDCULSI
IP22
IP3S
IP4F
IP4I
```

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IP4IF
ISLU
ISLU2
ISTF
LDSU
LDSF
MH32
MHEIB
MHLB
MHPPC
MHPPCLB
MSGH
ODMA
OIOP
OIU24
OIUIP
PH2A
PH2G
PH22I
PH22S
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PHA2A
PHE2E
PHE3B
PI
PI2
PHV1C
PHV3C
PHV4C
PHV5C
RAF
SAS
SM
SM2K
SM2KFX
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
V5D13K
V5D8K
V5DACP
V5DEVR1
V5DEVR2

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```
V5DEVR3
V5DVSP
V5DISL
```

`d` = The FN option is provided to allow hash sum checking on files that are not supported in the list of targets above. If the FN option is specified, then the DF must also be provided to indicate the hash sum file. The intent of this option is to allow for DISK hash sum verification on files that reside in temporary locations. If the FN option is used, no incore hash sum checking is done. The full path name to the file is required.

`e` = Hash sum file associated with the argument to the FN parameter. The DF option is required when the FN option is used. The full path name to the file is required.

`f` = Full path name to the output file. When this option is specified, then the output of the audit is sent to the specified file rather than the ROP and the originating terminal. This allows for more verbose output from the audit since the amount of output to the ROP is restricted. The OUTFILE option provides additional information to assist technical support in the resolution of hashsum mismatch problems. All output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with routine activities in the switch. These files should be removed when they are no longer needed.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the audit has been scheduled. Followed by one or more UPD:HSCHK output messages.

5. REFERENCES

Output Message(s):

```
UPD:HSCHK
UPD:SYSERR
UPD:USRERR
UPD:INFO
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):
116 MISCELLANEOUS
141-144 SM 1 THROUGH SM 192 STATUS
1800 SM X INHIBIT AND RECOVERY CONTROL

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UPD:HSCHK-F

Software Release: 5E20(1) and later
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To verify the integrity of the disk and core images for hash sum protected products.

Format 1 is used to perform hash sum checking on ALL of the hashsum protected products, a specific switching module (SM), or a specific target [such as, SM, integrated services line unit (ISLU), and so forth].

Format 2 is used to perform hash sum checking on a specific text file and it's associated hash sum file.

This check is scheduled by cron to run daily on all text [not office-dependent data (ODD) products in the switch that have associated hash sum files. There are two major checks that are done. First the disk image is verified by calculating the hash sums over the entire image and comparing them with the sums stored in the associated hash sum files. The second check is to compare (not calculate) the disk hash sums with the core hash sums. These two checks, coupled with the routine incore hash sum checking, provide a comprehensive audit to guarantee integrity of the hash sum protected products.

This input message is provided so that hash sum checking can be invoked manually. There are several different options that are provided to narrow the focus of the check to a specific SM, a specific target (such as, ISLU), a particular configuration, or a particular file.

During routine (scheduled from cron) hash sum verification, the only messages that are seen are the beginning message, and the completion message. However, if an error is found, additional messages will provide information on the error(s) that were found. The hash sum check is more verbose if it is being run in response to the input message. In this case it will report when it is beginning the disk hash sum check for each specified target.

Regardless of how the audit is requested (manually or routinely), disk hash sum errors are reported with a ROP message, a major alarm, and the switching module SM/CMP FILE indicator on MCC Display Page 116 will read HASHERR.

When this input message is run with only the ALL option and it does not find any errors, it will reset MCC Display Page 116 to normal.

WARNING: In the event that hash sum mismatches are found, corrective action should be taken immediately to prevent potential service impacting problems. Detailed procedures for correcting hash sum error problems are given in the Corrective Maintenance Manual. However, these should only be performed by trained and qualified personnel.

2. FORMAT

```
[1]    UPD:HSCHK:{SM=a|TARGET=b|ALL}[,OUTFILE=e|REPT][,DISK|CORE];
```

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```
[2]    UPD:HSCHK:FN=c,DF=d,TARGET=b[,OUTFILE=e];
```

3. EXPLANATION OF MESSAGE

`ALL` = Run the audit on all of the above targets,

`CORE` = If the CORE option is specified, then only incore hash sum checking is performed. The default is to do both disk and core hash sum checking.

`DISK` = If the DISK option is specified, then only disk hash sum checking is performed. The default is to do both disk and core hash sum checking.

`REPT` = The REPT option allows a user to request a summary report of any incore hash sum mismatches that occurred from a previous run of the audit. If the REPT option is specified, then no hash sum checking is performed. he only action that is performed is to look at the SM(s)/CMP(s) that mismatched and report the targets where errors were found. This is especially useful to quickly determine which targets encountered problems in a given SM. For example, if SM 3 is showing a D/C HASH status (on MCC Display Page 1800 or MCC Display pages 141-144), the hash sum mismatch could of occurred in the SM text file (IM.out) or in any of the peripherals that are supported in that configuration (such as, LDSU, RAF, and so forth). The REPT option will report all of the targets that had hash sum mismatches.

`a` = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Target. Refer to the APP:TARGETS appendix in the Appendixes section of the Input Messages manual.

`c` = The FN option is provided to allow hash sum checking on files that are not supported in the list of targets above. If the FN option is specified, then the DF must also be provided to indicate the hash sum file. The intent of this option is to allow for DISK hash sum verification on files that reside in temporary locations. If the FN option is used, no incore hash sum checking is done. The full path name to the file is required.

`d` = Hash sum file associated with the argument to the FN parameter. The DF option is required when the FN option is used. The full path name to the file is required.

`e` = Full path name to the output file. When this option is specified, then the output of the audit is sent to the specified file rather than the ROP and the originating terminal. This allows for more verbose output from the audit since the amount of output to the ROP is restricted. The OUTFILE option provides additional information to assist technical support in the resolution of hashsum mismatch problems. All output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with routine activities in the switch. These files should be removed when they are no longer needed.

4. SYSTEM RESPONSE

`PF` = Printout follows. The message was accepted and the audit has been scheduled. Followed by one or more UPD:HSCHK output messages.

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5. REFERENCES

Output Message(s):

```
UPD:HSCHK
UPD:SYSERR
UPD:USRERR
UPD:INFO
```

Input Appendix(es):

```
APP:RANGES
APP:TARGETS
```

Other Manual(s):
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

116	MISCELLANEOUS
141-144	SM 1 THROUGH SM 192 STATUS
1800	SM X INHIBIT AND RECOVERY CONTROL

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UPD:IMCAT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Invalidates memory segments for the input message catalog (imcatlg), causing the catalog to be read from disk. This message is used during a software update of the input message catalog.

After invalidating the memory segments, this message increments the input message catalog version number shared between processes accessing imcatlg (the shell and HMmcc). When the version number changes, usually during a software update, these processes clear the old catalog from their segment space and read the updated catalog from disk.

2. FORMAT

```
UPD:IMCAT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. The input request is invalid. May also include:

- `FILE INACCESSIBLE` = Failed to open the input message catalog (/no5text/hm/imcatlg). Verify /no5text/hm/imcatlg exists and is readable before executing UPD:IMCAT again.
- `SEGCODE CANNOT BE DETERMINED` = Failed to get a segment name for one of the input message catalog segments. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `SEGMENT NAME CANNOT BE CLEARED` = Failed to invalidate ("unname") one of the input message catalog segments. Restore original input message catalog before executing UPD:IMCAT again. (Refer to the UPD:BKOUT output message if imcatlg update occurred during a software update). If necessary, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

`OK` = Good. Request was accepted. Segments are marked invalid.

5. REFERENCES

Input Message(s):

`UPD:BKOUT`

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UPD:INITPW

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the password, the number of login attempts and/or the key, which are used by the Customer Service Computer Access Network System (CSCANS) interface, be initialized. Note that one, two or all three of these arguments may be specified for a given invocation of this input message, with the exception that if a new key is specified, then a new password must also be specified.

This input message should be used initially to setup the password and key used by the CSCANS interface. It should also be used to reinitialize the password and key after the CSCANS interface port has been locked out of service due to too many failed login attempts.

This input message may also be used to initialize the number of failed login attempts allowed and to initialize the key used to decode the password.

2. FORMAT

```
UPD:INITPW:{PASSWD=a[,KEY=c][,ATTEMPTS=b]|ATTEMPTS=b};
```

3. EXPLANATION OF MESSAGE

`a` = The new password to be used, with a minimum of six characters. It should consist of at least two alphabetic characters and at least one numeric or special character.

`b` = The number of failed successive login attempts allowed through the CSCANS interface before the port is locked out of service. If not specified, default is 3.

`c` = The new key to be used, consisting of exactly two characters.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by a UPD:INITPW output message.

5. REFERENCES

Input Message(s):

```
UPD:CSCANS-REPT
UPD:CSCANS-STOP
```

Output Message(s):

```
UPD:CSCANS
```

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```
UPD:INITPW
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:INSTL

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Request that a software update (SU) be installed or backed out.

2. FORMAT

```
[1]    UPD:INSTL:a[,SU="c"];

[2]    UPD:INSTL,b[,SU="c"][,NXT[,UCL]];
```

3. EXPLANATION OF MESSAGE

`NXT` = Next command.

`UCL` = Unconditional. This should only be used for those MSGS file commands that allow the UCL option. Valid only with NXT.

`a` = Begin state.
- `SET` = Identify the SU to be installed.
- `START` = Starts the installation of a SU.

`b` = Continue state.
- `BKOUT` = Return (unistall) the SU, prior to being made OFFICIAL, back to the VERIFY COMPLETED stage. This will remove any newly created disk files.
- `DEACT` = Return the SU back to the PREPARE completed stage from either the ACTIVATE or SOAK stage in reverse installation order. This will unistall the updates without removing any files.
- `THRU=d` = Install the SU through to the specified stage.
- `VERFY` = Starts the VERIFY stage of the SU installation process.

`c` = SU name.

`d` = End stage. Valid value(s):
- `PREP` = Prepare stage.
- `ACTV` = Activate stage.
- `SOAK` = Soak stage.
- `MKOF` = Make official stage.

4. SYSTEM RESPONSE

`NG` = No good.

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`PF` = Print follows.

5. REFERENCES

Input Message(s):

`UPD:BOLO`

Output Message(s):

`UPD:SYSERR`
`UPD:USRERR`

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

SU INSTALLATION

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UPD:NBRLIST

Software Release: 5E20(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a neighbor list (NBRLIST) update of all or specific internet protocol (IP) neighbors in the IP address manager (AM) (IPAM) neighbor list for a given cluster or office.

The report will contain far clusters and offices as well as an indication of whether the update to the far end was successful.

2. FORMAT

```
UPD:NBRLIST[,CLUSTER=a][,OFFICE=b];
```

3. EXPLANATION OF MESSAGE

`a` = Cluster name.

`b` = Office name.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more UPD:NBRLIST output messages.

`NG` = No good. May also include:
- `CLUSTER NOT PROVISIONED` = The request has been denied. The message is valid but the cluster is not provisioned.
- `DATABASE ERROR` = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- `OFFICE NOT PROVISIONED` = The request has been denied. The message is valid but the office is not provisioned.

`RL` = Retry later. May also include:
- `CMP UNAVAILABLE` = The request has been denied. The message is valid but the CMP is not available.

5. REFERENCES

Output Message(s):

```
OP:NBRLIST
UPD:NBRLIST
```

Input Appendix(es):

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```
APP:RANGES
```

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UPD:OFC-A

Software Release: 5E15 - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests updates associated with a temporary software update be made permanent. This must be done to one software update at a time, beginning with the oldest temporary software update and continuing with the order in which they were applied.

2. FORMAT

```
UPD:OFC:UPNM="a"[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally make official.

`a` = Software update: Specified a BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update; yy is the last two digits of the year, and nnnn is the sequence number identifying the software update (" " is required).

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
```

Output Message(s):

```
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:OFC-B

Software Release: 5E18(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests updates associated with a temporary software update be made permanent. This must be done to one software update at a time, beginning with the oldest temporary software update and continuing with the order in which they were applied.

2. FORMAT

```
UPD:OFC:UPNM="a"[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally make official.

`a` = Software update, specified a `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`.
Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year.
`rr`	= The release number [for example, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update

NOTE: Double quotes (" ") are required.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
```

Output Message(s):

```
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):

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235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:OMDB

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the message class or the alarm level for either one or a list of message keys in the output message data base (OMDB) disk file be updated. Successful updates are logged so that they can be reapplied after a field update.

2. FORMAT

```
UPD:OMDB:KEY=a:{MSGCLS=b|ALARM=c};
```

3. EXPLANATION OF MESSAGE

`a` = OMDB key (or list of keys). Refer to the APP:OMDB-X-REF appendix in the Appendixes section of the Output Messages manual for a list of valid OMDB keys.

`b` = Numeric value for message class in range 0 to 225.

`c` = Valid value(s):

`ACT`	= Automatically generated report. It may require some action to be taken.
`CRIT`	= Critical alarm. Immediate action required.
`INFO`	= Automatically generated report.
`MAJ`	= Major alarm. Immediate action required.
`MAN`	= Manually requested report.
`MIN`	= Minor alarm. Action required.
`VAR`	= Variable alarm supplied by client process. If the client process does not specify it, the alarm is defaulted to "INFO."

4. SYSTEM RESPONSE

`IP` = In progress. Followed by UPD:OMDB output message.

`NG` = No good. May also include:

- `INVALID ALARM` = Alarm is not one of the seven valid alarm levels.
- `INVALID KEY` = A message key is not within the valid range.
- `INVALID MSGCLS` = Message class is not within the valid range.
- `SYNTAX ERROR` = Message is not in the correct format.
- `TOO MANY KEYS` = Maximum of 32 keys are allowed per message.

5. REFERENCES

Input Message(s):

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```
ACTV:OMDB
APPLY:OMDB
OP:OMDB
```

Output Message(s):

```
UPD:OMDB
```

Other Manual(s):
235-105-250A *Craft Terminal Lockout Job Aid*

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UPD:OMIT

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a pending computer field update (that is, one that has been interrupted) be removed from further consideration. This input message effectively redefines the BWM containing the omitted update, and should be used only on updates which cannot be reset or continued.

WARNING: This message should be used only as a last resort. It should never be used without expert technical assistance.

2. FORMAT

```
UPD:OMIT [:DATA ,VLEV=a];
```

3. EXPLANATION OF MESSAGE

`a` = Requests additional output from a field update process. Verbose flags may be set for `UPD` and fuomit. The flags must be entered in the order the processes are listed. To turn on the verbose output for fuomit, `UPD`'s flag must be used or set to zero.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by `UPD` output messages.

5. REFERENCES

Input Message(s)

```
UPD:BKOUT
UPD:PERM
UPD:RESET
```

Output Message(s):

```
UPD:APPLY
UPD:BKOUT
UPD:BLDBOOT
UPD:CLR
UPD:DISPLAY
UPD:FTRC-3B
UPD:GEN-APPL
```

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```
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
UPD:ISG
UPD:OMDB
UPD:OMIT
UPD:PERM
UPD:PURGE
UPD:REPT
UPD:RESET
UPD:UPNM
UPD:VFY
```

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UPD:PATCH

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that program update compact switch processor's patch space.

The patch space compaction is normally used when the target's, SM, SM-2000 or CMP, patch space become insufficient and failed the program update process. The patch space compaction operation will try to increase the size of target's patch space and make successful program update process.

Note: If there is any need to back out patch space compaction after it has been made official, back-out-last-official (BOLO) process can be used for backout. For BOLO procedure check BOLO reference.

The target's patch space may become so fragmented or insufficient that even this operation can not generate large enough patch space for a successful program update process.

2. FORMAT

```
UPD:PATCH:TARGET=a,ACTION=b;
```

3. EXPLANATION OF MESSAGE

`a` = Type of processor to be compact patch space. Valid value(s):
- `SM` = Switching module.
- `SM2K` = Switching module (SM)-2000.
- `CMP` = Communication module processor.

`b` = Type of patch space compaction action. Valid value(s):
- `APPLY` = Execute patch space compaction and apply on requested target.
- `OFC` = Make official for the applied target.
- `BKOUT` = Back out previously requested applied target.

4. SYSTEM RESPONSE

`NG` = No good. The message was not accepted because the wrong TARGET or ACTION has been entered.

`PF` = Printout follows. The request has been accepted. Followed by a UPD:PATCH output message.

`INPROG` = In progress. The message was accepted and the action is in progress.

`CMPL, (action)` = Complete (action)'s process. May also include:

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APPLY
OFC
BKOUT

5. REFERENCES

Output Message(s):

```
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):

235-040-100 *OA&M Planning Guide*
235-100-125 *System Description*
235-105-100 *System Maintenance Requirement and Tools*
235-105-210 *Routine Operation and Maintenance*
235-106-20x *5ESS® Switch/VCDX Software Update procedures*
235-120-120 *VCDX User's Guide*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)

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UPD:PERM-A

Software Release: 5E15 - 5E17(1)
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests that updates associated with a temporary broadcast warning message (BWM) be made permanent. Only the oldest temporary BWM may be made permanent.

2. FORMAT

```
UPD:PERM:DATA {UPNM="a"|CONT}[,VLEV=b];
```

3. EXPLANATION OF MESSAGE

`a` = BWM. Specified as `BWMyy-nn`, `DMTyy-nnnn`, or `CFTyy-nnnn`, where `BWM`, `DMT`, and `CFT` identify the category of the BWM, `yy` is the last two digits of the year, and `nnnn` is the sequence number identifying the BWM.

`CONT` = Attempt to complete the UPD:PERM input message that failed.

`b` = Requests additional output from a field update process. Verbose flags may be set for `UPD`, `ucm`, `ogen`, and `oild`. The flags must be entered in the order in which the processes are listed. To turn on the verbose output for a process, all process flags before that one must be used or set to zero.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the appropriate `UPD` output messages.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:BLDBOOT
UPD:DISPLAY
UPD:OMIT
UPD:RESET-3B
```

Output Message(s):

```
UPD:APPLY
UPD:BKOUT
UPD:BLDBOOT
UPD:CLR
UPD:DISPLAY
UPD:FTRC-3B
```

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```
UPD:GEN-APPL
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
UPD:ISG
UPD:OMDB
UPD:OMIT
UPD:PERM
UPD:PURGE
UPD:REPT
UPD:RESET
UPD:UPNM
UPD:VFY
```

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UPD:PERM-B

Software Release: 5E18(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that updates associated with a temporary broadcast warning message (BWM) be made permanent. Only the oldest temporary BWM may be made permanent.

2. FORMAT

```
UPD:PERM:DATA {UPNM="a"|CONT}[,VLEV=b];
```

3. EXPLANATION OF MESSAGE

`CONT` = Attempt to complete the UPD:PERM input message that failed.

`a` = Software update, specified as `BWMrr-nnnn`, `DMTyy-nnnn`, or `CFTyy-nnnn`. Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year.
`rr`	= The release number [for example, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update.

`b` = Requests additional output from a field update process. Verbose flags may be set for `UPD`, `ucm`, `ogen`, and `oild`. The flags must be entered in the order in which the processes are listed. To turn on the verbose output for a process, all process flags before that one must be used or set to zero.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the appropriate `UPD` output messages.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:BLDBOOT
UPD:DISPLAY
UPD:OMIT
UPD:RESET-3B
```

Output Message(s):

```
UPD:APPLY
```

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```
UPD:BKOUT
UPD:BLDBOOT
UPD:CLR
UPD:DISPLAY
UPD:FTRC-3B
UPD:GEN-APPL
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
UPD:ISG
UPD:OMDB
UPD:REPT
UPD:UPNM
UPD:VFY
```

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UPD:PMPPERF-A

Software Release: 5E15 only
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.

The target peripheral(s) can be specified in two ways. A single target can be specified explicitly with the TARGET option (Format 1). All targets affected by a given software update may be removed and restored with the UPNM option (Format 2). The SM resident image for the target(s) must be consistent, otherwise UPD:PMPPERF will abort. UPD:PMPPERF can be thought of as a way to recover from type 7 inconsistencies. All the affected hardware should be in service prior to entering this message.

For protocol handlers (PH), each packet switch unit shelf must be equipped with at least one standby spare PH of each affected hardware type. If affected hardware is out-of-service, UPD:PMPPERF may abort unless the UCL option is given (with the TARGET option only). Refer to the UPD:PMPPERF output manual page for more information.

2. FORMAT

```
[1]    UPD:PMPPERF:TARGET=a[,UCL];

[2]    UPD:PMPPERF:UPNM="b"[,OFC];
```

3. EXPLANATION OF MESSAGE

OFC = Only those targets that require remove/restore after the UPD:OFC input message (ISLU, IDCUCCP, IDCUDLP, IDCULSI, DNUSCC, and DNUSTMX) will be chosen from the MSGS file. This option is appropriate only after the UPD:OFC input message has completed since only those targets will need to be removed/restored. This option has nothing to do with which image (temporary versus official) is pumped to the peripherals.

UCL = Remove and restore the target peripherals unconditionally.

Default is conditional removal. The restoration is always unconditional.

a = Pumpable SM peripheral type. Valid value(s):

- CM3 = Communication module 3
- DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- DNUSTMX = Transmission multiplexer.
- DSC3 = Digital service circuit - model 3.
- DSP13K = 8K digital signal processor for CDMA protocol handler for voice.
- DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
- DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
- GDSF = Global digital services function - model 3.
- HDSU = Hardware digital service unit.
- HSAS = Service announcement system diagnostic image.
- IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.

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IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP22S	= PH22 OIP image.
IP22W	= PH22 wireless OIP image.
IP3S	= Protocol handler 3 CCS OIP image.
IP4F	= Frame relay protocol handler version 4 I/O processor.
IP4I	= PH4I operational input/output processor.
IP4IF	= ISDN Frame Relay protocol handler version 4 I/O processor.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
PH2A	= Protocol handler 2 (PH2) with ACCESS application processor image.
PH2G	= PH2 with GATEWAY application processor image.
PH22S	= PH22 AP image.
PH22W	= PH22 wireless AP image.
PH3C	= Protocol handler 3 (PH3) with COMMON application processor image.
PH3S	= PH3 CCS AP image.
PH4A	= Protocol handler 4 (PH4) access image.
PH4G	= PH4 gateway image.
PH4I	= PH4 with integrated services digital network (ISDN) application processor image.
PHA1A	= Protocol handler for ATM (asynchronous transfer mode).
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice for CDMA (code division multiple access).
PHV3C	= Protocol handler for voice version 3 for CDMA application.
PHV4C	= Protocol handler for voice version 4 for CDMA application.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SMPMH	= Switching module processor message handler (MH) operational image.
SMPMHLB	= Switching module processor MH little boot image.
V3DACP	= ACELP digital signal processor, for TDMA protocol handler for voice.
V4D13K	= 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K	= 8K DSP, for CDMA protocol handler for voice version 4.
V4DACP	= ACELP DSP, for TDMA protocol handler for voice version 4.
V4DEVR1	= EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4DEVR2	= EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4DEVR3	= EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP	= VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL	= ISLP DSP, for IS41 TDMA protocol handler for data circuit.

b = Use the MSGS file in the specified software update package to determine the list of targets.

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The software update package must exist either under the /etc/bwm directory, or be a software update number listed as official on the 1950 page.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. This is followed by one or more UPD:PMPPERF output messages.

5. REFERENCES

Input Message(s):

```
UPD:OFC
UPD:PMPSTOP
UPD:VFYCON
```

Output Message(s):

```
UPD:OFC
UPD:PMPPERF
UPD:PMPSTOP
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:PMPPERF-B

Software Release: 5E16(1) only
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.

The target peripheral(s) can be specified in two ways. A single target can be specified explicitly with the TARGET option (Format 1). All targets affected by a given software update may be removed and restored with the UPNM option (Format 2).

The SM resident image for the target(s) must be consistent, otherwise UPD:PMPPERF will abort. UPD:PMPPERF can be thought of as a way to recover from type 7 inconsistencies.

All the affected hardware should be in service prior to entering this message. For protocol handlers (PH), each packet switch unit shelf must be equipped with at least one standby spare PH of each affected hardware type. If affected hardware is out-of-service, UPD:PMPPERF may abort unless the UCL option is given (with the TARGET option only). Refer to the UPD:PMPPERF output manual page for more information.

2. FORMAT

```
[1]    UPD:PMPPERF:TARGET=a[,UCL];
       ___________________________________________________________

[2]    UPD:PMPPERF:UPNM="b"[,OFC];
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

OFC = Only those targets that require remove/restore after the UPD:OFC input message (ISLU, IDCUCCP, IDCUDLP, IDCULSI, DNUSCC, and DNUSTMX) will be chosen from the MSGS file. This option is appropriate only after the UPD:OFC input message has completed since only those targets will need to be removed/restored. This option has nothing to do with which image (temporary versus official) is pumped to the peripherals.

UCL = Remove and restore the target peripherals unconditionally.

Default is conditional removal. The restoration is always unconditional.

a = Pumpable SM peripheral type. Valid value(s):

- CM3 = Communication module 3
- DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- DNUSTMX = Transmission multiplexer.
- DSC3 = Digital service circuit - model 3.
- DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
- DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.

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GDSF	= Global digital services function - model 3.
HDSU	= Hardware digital service unit.
HSAS	= Service announcement system diagnostic image.
IDCUCCP	= Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP22	= PH22 common input/output processor (IOP) image.
IP3S	= PH3 CCS IOP image.
IP4F	= Frame relay PH4 IOP image.
IP4I	= ISDN PH4 IOP image.
IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) operational image.
MHEIB	= Switching module processor message handler EIB (MHEIB) operational image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler power PC (MHPPC) operational image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit - 24 channels.
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.

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SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

b = Use the MSGS file in the specified software update package to determine the list of targets. The software update package must exist either under the /etc/bwm directory, or be a software update number listed as official on the 1950 page.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. This is followed by one or more UPD:PMPPERF output messages.

5. REFERENCES

Input Message(s):

```
UPD:OFC
UPD:PMPSTOP
UPD:VFYCON
```

Output Message(s):

```
UPD:OFC
UPD:PMPPERF
UPD:PMPSTOP
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:PMPPERF-C

Software Release: 5E16(2) - 5E17(1)
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.

The target peripheral(s) can be specified in two ways. A single target can be specified explicitly with the TARGET option (Format 1). All targets affected by a given software update may be removed and restored with the UPNM option (Format 2).

The SM resident image for the target(s) must be consistent, otherwise UPD:PMPPERF will abort. UPD:PMPPERF can be thought of as a way to recover from type 7 inconsistencies.

All the affected hardware should be in service prior to entering this message. For protocol handlers (PH), each packet switch unit shelf must be equipped with at least one standby spare PH of each affected hardware type. If affected hardware is out-of-service, UPD:PMPPERF may abort unless the UCL option is given (with the TARGET option only). Refer to the UPD:PMPPERF output manual page for more information.

2. FORMAT

```
[1]    UPD:PMPPERF:TARGET=a[,UCL];
       ___________________________________________________________

[2]    UPD:PMPPERF:UPNM="b"[,OFC];
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

OFC = Only those targets that require remove/restore after the UPD:OFC input message (ISLU, IDCUCCP, IDCUDLP, IDCULSI, DNUSCC, and DNUSTMX) will be chosen from the MSGS file. This option is appropriate only after the UPD:OFC input message has completed since only those targets will need to be removed/restored. This option has nothing to do with which image (temporary versus official) is pumped to the peripherals.

UCL = Remove and restore the target peripherals unconditionally.

Default is conditional removal. The restoration is always unconditional.

a = Pumpable SM peripheral type. Valid value(s):

- CM3 = Communication module 3
- DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- DNUSTMX = Transmission multiplexer.
- DSC3 = Digital service circuit - model 3.
- DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
- DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.

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GDSF	= Global digital services function - model 3.
HDSU	= Hardware digital service unit.
HSAS	= Service announcement system diagnostic image.
IDCUCCP	= Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP	= IDCU data link processor.
IDCULSI	= IDCU loop side interface.
IP22	= PH22 common input/output processor (IOP) image.
IP3S	= PH3 CCS IOP image.
IP4F	= Frame relay PH4 IOP image.
IP4I	= ISDN PH4 IOP image.
IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) operational image.
MHEIB	= Switching module processor message handler EIB (MHEIB) operational image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler *PowerPC*® (MHPPC) operational image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit (OIU) - 24 channels.
OIUIP	= Optical interface unit - internet protocol (IP).
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH31S	= PH31 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.

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RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

b = Use the MSGS file in the specified software update package to determine the list of targets. The software update package must exist either under the /etc/bwm directory, or be a software update number listed as official on the 1950 page.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. This is followed by one or more UPD:PMPPERF output messages.

5. REFERENCES

Input Message(s):

```
UPD:OFC
UPD:PMPSTOP
UPD:VFYCON
```

Output Message(s):

```
UPD:OFC
UPD:PMPPERF
UPD:PMPSTOP
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

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Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:PMPPERF-D

Software Release: 5E18(1) - 5E19(1)
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.

The target peripheral(s) can be specified in two ways. A single target can be specified explicitly with the TARGET option (Format 1). All targets affected by a given software update may be removed and restored with the UPNM option (Format 2).

The SM resident image for the target(s) must be consistent, otherwise UPD:PMPPERF will abort. UPD:PMPPERF can be thought of as a way to recover from type 7 inconsistencies.

All the affected hardware should be in service prior to entering this message. For protocol handlers (PH), each packet switch unit shelf must be equipped with at least one standby spare PH of each affected hardware type. If affected hardware is out-of-service, UPD:PMPPERF may abort unless the UCL option is given (with the TARGET option only). Refer to the UPD:PMPPERF output manual page for more information.

2. FORMAT

```
[1]    UPD:PMPPERF:TARGET=a[,UCL];
       ___________________________________________________________

[2]    UPD:PMPPERF:UPNM="b"[,OFC];
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

OFC = Only those targets that require remove/restore after the UPD:OFC input message (ISLU, IDCUCCP, IDCUDLP, IDCULSI, DNUSCC, and DNUSTMX) will be chosen from the MSGS file. This option is appropriate only after the UPD:OFC input message has completed since only those targets will need to be removed/restored. This option has nothing to do with which image (temporary versus official) is pumped to the peripherals.

UCL = Remove and restore the target peripherals unconditionally.

Default is conditional removal. The restoration is always unconditional.

a = Pumpable SM peripheral type. Valid value(s):

- CM3 = Communication module 3
- DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- DNUSTMX = Transmission multiplexer.
- DSC3 = Digital service circuit - model 3.
- DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
- DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.

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GDSF = Global digital services function - model 3.
HDSU = Hardware digital service unit.
HSAS = Service announcement system diagnostic image.
IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP = IDCU data link processor.
IDCULSI = IDCU loop side interface.
IP22 = PH22 common input/output processor (IOP) image.
IP3S = PH3 CCS IOP image.
IP4F = Frame relay PH4 IOP image.
IP4I = ISDN PH4 IOP image.
IP4IF = ISDN frame relay PH4 IOP image.
ISLU = Integrated services line unit.
ISLU2 = Integrated services line unit 2.
ISTF = Integrated services test function.
LDSU = Local digital service unit.
LDSF = Local digital services function - model 3.
MH32 = Switching module processor message handler 32 (MH32) operational image.
MHEIB = Switching module processor message handler EIB (MHEIB) operational image.
MHLB = Switching module processor MH little boot image.
MHPPC = Switching module processor message handler PowerPC\(rg (MHPPC) operational image.
MHPPCLB = Switching module processor MHPPC little boot image.
MSGH = Message handler.
ODMA = Operational direct memory access.
OIOP = Operational input/output processor.
OIU24 = Optical interface unit (OIU) - 24 channels.
OIUIP = Optical interface unit - internet protocol (IP).
PH2A = Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G = PH2 GATEWAY AP image.
PH22I = PH22 wireless ISDN AP image.
PH22S = PH22 signaling AP image.
PH31S = PH31 signaling AP image.
PH3C = PH3 COMMON AP image.
PH3S = PH3 CCS AP image.
PH4A = PH4 access AP image.
PH4G = PH4 gateway AP image.
PH4I = PH4 ISDN AP image.
PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A = Protocol handler for ATM model 2 AP image.
PHE2E = Protocol handler for ethernet.
PI = Packet interface.
PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C = PHV2 for CDMA application AP image.
PHV3C = PHV3 for CDMA application AP image.
PHV4C = PHV4 for CDMA application AP image.
PHV5C = PHV5 for CDMA application AP image.

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PHV6C	= PHV6 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K + EVRC DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.
V6D13K	= 13K + EVRC DSP, for CDMA for PHV6.

b = Use the MSGS file in the specified software update package to determine the list of targets. The software update package must exist either under the /etc/bwm directory, or be a software update number listed as official on the 1950 page.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. This is followed by one or more UPD:PMPPERF output messages.

5. REFERENCES

Input Message(s):

```
UPD:OFC
UPD:PMPSTOP
UPD:VFYCON
```

Output Message(s):

```
UPD:OFC
UPD:PMPPERF
UPD:PMPSTOP
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

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Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
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UPD:PMPPERF-E

Software Release: 5E20(1) and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.

The target peripheral(s) can be specified in two ways. A single target can be specified explicitly with the TARGET option (Format 1). All targets affected by a given software update may be removed and restored with the UPNM option (Format 2).

The SM resident image for the target(s) must be consistent, otherwise UPD:PMPPERF will abort. UPD:PMPPERF can be thought of as a way to recover from type 7 inconsistencies.

All the affected hardware should be in service prior to entering this message. For protocol handlers (PH), each packet switch unit shelf must be equipped with at least one standby spare PH of each affected hardware type. If affected hardware is out-of-service, UPD:PMPPERF may abort unless the UCL option is given (with the TARGET option only). Refer to the UPD:PMPPERF output manual page for more information.

2. FORMAT

```
[1]    UPD:PMPPERF:TARGET=a[,UCL];
       ___________________________________________________________

[2]    UPD:PMPPERF:UPNM="b"[,OFC];
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

OFC = Only those targets that require remove/restore after the UPD:OFC input message (ISLU, IDCUCCP, IDCUDLP, IDCULSI, DNUSCC, and DNUSTMX) will be chosen from the MSGS file. This option is appropriate only after the UPD:OFC input message has completed since only those targets will need to be removed/restored. This option has nothing to do with which image (temporary versus official) is pumped to the peripherals.

UCL = Remove and restore the target peripherals unconditionally.

Default is conditional removal. The restoration is always unconditional.

a = Pumpable SM peripheral type. Refer to the APP:TARGETS appendix in the Appendixes section of the Input Messages manual.

b = Use the MSGS file in the specified software update package to determine the list of targets. The software update package must exist either under the /etc/bwm directory, or be a software update number listed as official on the 1950 page.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. This is followed by one or more

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UPD:PMPPERF output messages.

5. REFERENCES

Input Message(s):

```
UPD:OFC
UPD:PMPSTOP
UPD:VFYCON
```

Output Message(s):

```
UPD:OFC
UPD:PMPPERF
UPD:PMPSTOP
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Input Appendix(es):

```
APP:TARGETS
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1990 INSTALL BWM

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UPD:PMPSTOP

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that execution of an in-progress UPD:PMPPERF input message be stopped.

2. FORMAT

```
UPD:PMPSTOP;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by a UPD:PMPSTOP output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
UPD:VFYCON
```

Output Message(s):

```
UPD:PMPPERF
UPD:PMPSTOP
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:PRINT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Request that an the specified file type of a designated software update (SU) be printed to the ROP.

2. FORMAT

```
UPD:PRINT:a [,SU=b];
```

3. EXPLANATION OF MESSAGE

`a` = File type. Valid value(s):
`MSGS`
`SCANS`

`b` = SU name (10 character maximum). If no SU name is given the specified file type of the SU which is currently loaded will be printed.

4. SYSTEM RESPONSE

`NG` = No good.

`PF` = Printout follows. Followed by the REPT:AML-REACH output message.

5. REFERENCES

Input Message(s):

```
UPD:SET
UPD:PRINT
```

Output Message(s):

```
REPT:AML-REACH
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

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SU INSTALLATION

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UPD:PSR

Software Release: 5E16(2) and later
Command Group: SFTMGT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the patch space recovery (PSR) feature be executed. Before executing these commands, please read the *Patch Space Recovery Procedures* of the Routine Operations & Maintenance Procedures manual (235-105-210) to familiarize yourself with the feature.

WARNING: This command should be executed during off-hours to minimize impact to switch.

2. FORMAT

```
[1]    UPD:PSR,[PREPARE | REPORT | BKOUT | DEACT | STATUS],TARGET=a
       ____________________________________________________________

[2]    UPD:PSR,ACTIVATE,TARGET=a,SMLIST=b[,SOAK=c]
       ____________________________________________________________

[3]    UPD:PSR,COMMIT,TARGET=a[,UCL]
       ____________________________________________________________

[4]    UPD:PSR,[RESETSOAK | STOP]
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditionally commit the new IM.out image(s) without verifying that the new IM.out image(s) being committed is in all SMs of that configuration.

WARNING: UCL option should only be used under the direction of Lucent Technical Support

`a` = SM image in which patch space is to be reclaimed. Valid value(s):

- `SM` = Switching module (SM).
- `SM2K` = SM-2000.

  NOTE: Does not include SM-2000 *PowerPC®*.
- `ALL` = SM and SM-2000

`b` = List of SMs on which the procedure should be run. The list is either the keyword "`ALL`", or a comma-separated list of SM's. For example, "`smlist="1,5,20,3`".

NOTE: SM numbers do not have to be in increasing order.

`c` = Time to soak the newly compacted IM.out image(s). The format is "HH:MM"(hours:minutes,

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and must be put in double quotes), or HHMM without double quotes. Default time for ACTIVATE is set to 5 minutes.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. This is followed by one or more UPD:PSR output messages.

5. REFERENCES

Output Message(s):

```
UPD:PSR
UPD:PATCH
UPD:WARNING
```

Other Manual(s):
235-105-210 *Routine Operations & Maintenance Procedures*

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UPD:PUMPBWM-A

Software Release: 5E15 - 5E16(1)
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the temporary software update pump map be used during an initialization of the switching modules (SMs) or communication module processors (CMPs).

Format 1 is to be used for CMP updates only. Format 2 is to be used for SM or peripheral updates. Format 3 is to be used for SM-2000 or peripheral updates that affect SM-2000.

2. FORMAT

```
[1]    UPD:PUMPBWM:CMP;

[2]    UPD:PUMPBWM:SM[,CONFIG=a];

[3]    UPD:PUMPBWM:SM2K;
```

3. EXPLANATION OF MESSAGE

`a` = The configuration type to receive the update. Valid value(s):

- `0` = Basic.
- `1` = Standard.
- `2` = Loaded.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
UPD:PUMPOFC
```

Output Message(s):

```
UPD:PMPPERF
UPD:PUMPBWM
UPD:PUMPOFC
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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UPD:PUMPBWM-B

Software Release: 5E16(2) - 5E19(1)
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the temporary software update pump map be used during an initialization of the switching modules (SMs) or communication module processors (CMPs).

Format 1 is to be used for CMP updates only.

Format 2 is to be used for SM or peripheral updates.

Format 3 is to be used for SM-2000 or peripheral updates that affect SM-2000.

Format 4 is to be used for SM-2000 *PowerPC®* upgrade or peripheral updates that affect SM-2000 *PowerPC®* upgrade.

2. FORMAT

```
[1]    UPD:PUMPBWM:CMP;
       ____________________________________________________________

[2]    UPD:PUMPBWM:SM[,CONFIG=a];
       ____________________________________________________________

[3]    UPD:PUMPBWM:SM2K;
       ____________________________________________________________

[4]    UPD:PUMPBWM:SM2KFX;
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = The configuration type to receive the update. Valid value(s):
- `0` = Basic.
- `1` = Standard.
- `2` = Loaded.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

`UPD:PMPPERF`

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```
UPD:PUMPOFC
```

Output Message(s):

```
UPD:PMPPERF
UPD:PUMPBWM
UPD:PUMPOFC
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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UPD:PUMPBWM-C

Software Release: 5E20(1) and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the temporary software update pump map be used during an initialization of the switching modules (SMs).

Format 1 is used for SM or peripheral updates.

Format 2 is used for SM-2000 or peripheral updates that affect SM-2000.

Format 3 is used for SM-2000 *PowerPC®* upgrade or peripheral updates that affect SM-2000 *PowerPC®* upgrade.

2. FORMAT

```
[1]    UPD:PUMPBWM:SM[,CONFIG=a];
```

```
[2]    UPD:PUMPBWM:SM2K;
```

```
[3]    UPD:PUMPBWM:SM2KFX;
```

---

3. EXPLANATION OF MESSAGE

`a` = The configuration type to receive the update. Valid value(s):
- `0` = Basic.
- `1` = Standard.
- `2` = Loaded.

4. SYSTEM RESPONSE

`PF` = Printout follows.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
UPD:PUMPOFC
```

Output Message(s):

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```
UPD:PMPPERF
UPD:PUMPBWM
UPD:PUMPOFC
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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UPD:PUMPOFC-A

Software Release: 5E15 - 5E16(1)
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the official pump map be used during an initialization of the switching modules (SM or SM-2000) or communication module processors (CMPs).

2. FORMAT

```
UPD:PUMPOFC:{CMP|SM|SM2K};
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF	= Printout follows. An output message of UPD:PUMPOFC will follow in response to the request.

5. REFERENCES

Input Message(s):

```
UPD:PUMPBWM
```

Output Message(s):

```
UPD:PUMPOFC
UPD:SYSERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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UPD:PUMPOFC-B

Software Release: 5E16(2) - 5E19(1)
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the official pump map be used during an initialization of the switching modules (SM), SM-2000, SM-2000 *PowerPC*® upgrade, or communication module processors (CMPs).

2. FORMAT

```
UPD:PUMPOFC:{CMP|SM|SM2K|SM2KFX};
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the UPD:PUMPOFC output message.

5. REFERENCES

Input Message(s):

```
UPD:PUMPBWM
```

Output Message(s):

```
UPD:PUMPOFC
UPD:SYSERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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UPD:PUMPOFC-C

Software Release: 5E20(1) and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the official pump map be used during an initialization of the switching modules (SM), SM-2000, SM-2000 *PowerPC*® upgrade.

2. FORMAT

```
UPD:PUMPOFC:{SM|SM2K|SM2KFX};
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the UPD:PUMPOFC output message.

5. REFERENCES

Input Message(s):

```
UPD:PUMPBWM
```

Output Message(s):

```
UPD:PUMPOFC
UPD:SYSERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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UPD:RCVRY-A

Software Release: 5E15 only
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

2. FORMAT

```
UPD:RCVRY:{BKWD|FRWD}{,ALL|,TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Recover all processors.

`BKWD` = Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

`FRWD` = Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and files(s).

`a` = Type of processor to be recovered. Valid value(s):

- `AM` = Administrative module.
- `CMP` = Communication module processor.
- `DDMA` = Diagnostic direct memory access
- `DNUSCC` = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- `DNUSTMX` = Transmission multiplexer.
- `DSC3` = Digital service circuit - model 3.
- `DSP13K` = 8K digital signal processor for CDMA protocol handler for voice.
- `DSP8K` = 8K digital signal processor for CDMA protocol handler for voice.
- `DSPEVRC` = EVRC digital signal processor for CDMA protocol handler for voice.
- `GDSF` = Global digital services function - model 3.
- `HDSU` = Hardware digital service unit.
- `HSAS` = Service announcement system diagnostic image.
- `IDCUCCP` = Integrated digital carrier unit (IDCU) common control processor.
- `IDCUDLP` = IDCU data link processor.
- `IDCULSI` = IDCU loop side interface.
- `IP3S` = Protocol handler 3 CCS OIP image.
- `IP4F` = Frame relay protocol handler version 4 I/O processor.
- `IP4I` = PH4I operational input/output processor.
- `IP4IF` = ISDN Frame Relay protocol handler version 4 I/O processor.
- `ISLU` = Integrated services line unit.

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ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
PH2A	= Protocol handler 2 (PH2) with ACCESS application processor image.
PH2G	= PH2 with GATEWAY application processor image.
PH3C	= Protocol handler 3 (PH3) with COMMON application processor image.
PH3S	= PH3 CCS AP image.
PH4A	= Protocol handler 4 (PH4) access image.
PH4G	= PH4 gateway image.
PH4I	= PH4 with integrated services digital network (ISDN) application processor image.
PHA1A	= Protocol handler for ATM (asynchronous transfer mode).
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice for CDMA (code division multiple access).
PHV3C	= Protocol handler for voice version 3 for CDMA application.
PHV4C	= Protocol handler for voice version 4 for CDMA application.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SMPMH	= Switching module processor message handler (MH) operational image.
SMPMHLB	= Switching module processor MH little boot image.
V3DACP	= ACELP digital signal processor, for TDMA protocol handler for voice.
V4D13K	= 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K	= 8K DSP, for CDMA protocol handler for voice version 4.
V4DACP	= ACELP DSP, for TDMA protocol handler for voice version 4.
V4DEVR1	= EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4DEVR2	= EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4DEVR3	= EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP	= VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL	= ISLP DSP, for IS41 TDMA protocol handler for data circuit.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by the UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
```

```
UPD:VFYCON
```

Output Message(s):

```
UPD:PMPPERF
UPD:RCVRY
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:RCVRY-B

Software Release: 5E16(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

2. FORMAT

```
UPD:RCVRY:{BKWD|FRWD}{,ALL|,TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Recover all processors.

`BKWD` = Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

`FRWD` = Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and files(s).

`a` = Type of processor to be recovered. Valid value(s):

`AM`	= Administrative module.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access
`DNUSCC`	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
`DNUSTMX`	= Transmission multiplexer.
`DSC3`	= Digital service circuit - model 3.
`DSP13K`	= 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
`DSP8K`	= 8K digital signal processor for CDMA protocol handler for voice.
`DSPEVRC`	= EVRC digital signal processor for CDMA protocol handler for voice.
`GDSF`	= Global digital services function - model 3.
`HDSU`	= Hardware digital service unit.
`HSAS`	= Service announcement system diagnostic image.
`IDCUCCP`	= Integrated digital carrier unit (IDCU) common control processor.
`IDCUDLP`	= IDCU data link processor.
`IDCULSI`	= IDCU loop side interface.
`IP22`	= PH22 common input/output processor (IOP) image.
`IP3S`	= PH3 CCS IOP image.
`IP4F`	= Frame relay PH4 IOP image.
`IP4I`	= ISDN PH4 IOP image.

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IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) operational image.
MHEIB	= Switching module processor message handler EIB (MHEIB) operational image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler power PC (MHPPC) operational image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit - 24 channels.
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.

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V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by the UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
UPD:VFYCON
```

Output Message(s):

```
UPD:PMPPERF
UPD:RCVRY
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:RCVRY-C

Software Release: 5E16(2) - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

2. FORMAT

```
UPD:RCVRY:{BKWD|FRWD}{,ALL|,TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Recover all processors.

`BKWD` = Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

`FRWD` = Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and files(s).

`a` = Type of processor to be recovered. Valid value(s):

- `AM` = Administrative module.
- `CMP` = Communication module processor.
- `DDMA` = Diagnostic direct memory access
- `DNUSCC` = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- `DNUSTMX` = Transmission multiplexer.
- `DSC3` = Digital service circuit - model 3.
- `DSP13K` = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- `DSP8K` = 8K digital signal processor for CDMA protocol handler for voice.
- `DSPEVRC` = EVRC digital signal processor for CDMA protocol handler for voice.
- `GDSF` = Global digital services function - model 3.
- `HDSU` = Hardware digital service unit.
- `HSAS` = Service announcement system diagnostic image.
- `IDCUCCP` = Integrated digital carrier unit (IDCU) common control processor.
- `IDCUDLP` = IDCU data link processor.
- `IDCULSI` = IDCU loop side interface.
- `IP22` = PH22 common input/output processor (IOP) image.
- `IP3S` = PH3 CCS IOP image.
- `IP4F` = Frame relay PH4 IOP image.
- `IP4I` = ISDN PH4 IOP image.

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IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) operational image.
MHEIB	= Switching module processor message handler EIB (MHEIB) operational image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler *PowerPC*® (MHPPC) operational image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit (OIU) - 24 channels.
OIUIP	= Optical interface unit - internet protocol (IP).
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 *PowerPC*® upgrade.
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.

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V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by the UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

UPD:PMPPERF
UPD:VFYCON

Output Message(s):

UPD:PMPPERF
UPD:RCVRY
UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:RCVRY-D

Software Release: 5E18(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

2. FORMAT

```
UPD:RCVRY:{BKWD|FRWD}{,ALL|,TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Recover all processors.

`BKWD` = Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

`FRWD` = Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and files(s).

`a` = Type of processor to be recovered. Valid value(s):

- `AM` = Administrative module.
- `CMP` = Communication module processor.
- `DDMA` = Diagnostic direct memory access
- `DNUSCC` = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- `DNUSTMX` = Transmission multiplexer.
- `DSC3` = Digital service circuit - model 3.
- `DSP13K` = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- `DSP8K` = 8K digital signal processor for CDMA protocol handler for voice.
- `DSPEVRC` = EVRC digital signal processor for CDMA protocol handler for voice.
- `GDSF` = Global digital services function - model 3.
- `HDSU` = Hardware digital service unit.
- `HSAS` = Service announcement system diagnostic image.
- `IDCUCCP` = Integrated digital carrier unit (IDCU) common control processor.
- `IDCUDLP` = IDCU data link processor.
- `IDCULSI` = IDCU loop side interface.
- `IP22` = PH22 common input/output processor (IOP) image.
- `IP3S` = PH3 CCS IOP image.
- `IP4F` = Frame relay PH4 IOP image.
- `IP4I` = ISDN PH4 IOP image.

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IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) operational image.
MHEIB	= Switching module processor message handler EIB (MHEIB) operational image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler PowerPC\(rg (MHPPC) operational image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit (OIU) - 24 channels.
OIUIP	= Optical interface unit - internet protocol (IP).
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
PHV6C	= PHV6 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 PowerPC\(rg upgrade.
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.

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V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K + EVRC DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.
V6D13K	= 13K + EVRC DSP, for CDMA for PHV6.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by the UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
UPD:VFYCON
```

Output Message(s):

```
UPD:PMPPERF
UPD:RCVRY
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:RCVRY-E

Software Release: 5E19(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

2. FORMAT

```
UPD:RCVRY:{BKWD|FRWD}{,ALL|,TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Recover all processors.

`BKWD` = Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

`FRWD` = Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and files(s).

`a` = Type of processor to be recovered. Valid value(s):

`AM`	= Administrative module.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access
`DNUSCC`	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
`DNUSTMX`	= Transmission multiplexer.
`DSC3`	= Digital service circuit - model 3.
`DSP13K`	= 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
`DSP8K`	= 8K digital signal processor for CDMA protocol handler for voice.
`DSPEVRC`	= EVRC digital signal processor for CDMA protocol handler for voice.
`GDSF`	= Global digital services function - model 3.
`HDSU`	= Hardware digital service unit.
`HSAS`	= Service announcement system diagnostic image.
`IDCUCCP`	= Integrated digital carrier unit (IDCU) common control processor.
`IDCUDLP`	= IDCU data link processor.
`IDCULSI`	= IDCU loop side interface.
`IP22`	= PH22 common input/output processor (IOP) image.
`IP3S`	= PH3 CCS IOP image.
`IP4F`	= Frame relay PH4 IOP image.
`IP4I`	= ISDN PH4 IOP image.

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IP4IF	= ISDN frame relay PH4 IOP image.
ISLU	= Integrated services line unit.
ISLU2	= Integrated services line unit 2.
ISTF	= Integrated services test function.
LDSU	= Local digital service unit.
LDSF	= Local digital services function - model 3.
MH32	= Switching module processor message handler 32 (MH32) operational image.
MHEIB	= Switching module processor message handler EIB (MHEIB) operational image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler PowerPC\(rg (MHPPC) operational image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit (OIU) - 24 channels.
OIUIP	= Optical interface unit - internet protocol (IP).
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PHE3B	= Protocol handler for IP backhaul image.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
PHV6C	= PHV6 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 PowerPC\(rg upgrade.
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.

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V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K + EVRC DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.
V6D13K	= 13K + EVRC DSP, for CDMA for PHV6.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by the UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
UPD:VFYCON
```

Output Message(s):

```
UPD:PMPPERF
UPD:RCVRY
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:RCVRY-F

Software Release: 5E20(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

2. FORMAT

```
UPD:RCVRY:{BKWD|FRWD}{,ALL|,TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Recover all processors.

`BKWD` = Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

`FRWD` = Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and files(s).

`a` = Type of processor to be recovered. Refer to the APP:TARGETS appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
UPD:VFYCON
```

Output Message(s):

```
UPD:PMPPERF
UPD:RCVRY
UPD:SYSERR
UPD:USRERR
```

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```
UPD:VFYCON
```

Input Appendix(es):

```
APP:TARGETS
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1990 INSTALL BWM

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UPD:RDTA

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

To update the timer value for a given active remote digital test access (RDTA) session and to change the duration period.

This input message will cause the duration timer to be reinitialized, allowing the active RDTA session to continue for another duration interval. The duration interval can also be changed by including the optional parameter DUR. The timer may be reset for any session at any time during the session.

Thirty minutes before the termination interval specified on the EXC:RDTA input message, a warning UPD:RDTA output message will print to indicate that the RDTA session will be terminated in 30 minutes. The user may keep the active RDTA session alive by inputting this message within 30 minutes.

The active RDTA session will be updated based on the session number returned in the EXC:RDTA output message after the connection was setup. The session number must either be known by the user attempting maintenance or it can be found by exercising the OP:RDTA input message to receive information on all sessions (SES=ALL option). This session number input verifies the user's knowledge of the session's status to the switch when changes are made affecting the session.

2. FORMAT

```
UPD:RDTA,SES=a[,DUR=b];
```

3. EXPLANATION OF MESSAGE

`a` = Session number of the active RDTA session for which the duration timer is to be reinitialized.

`b` = The maximum duration for the RDTA session. The valid values are 1 to 7 (days) or 0 (infinite). If no new period (DUR) is specified on the input message, the session will be prolonged by the original period from the time the input message is executed.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by a UPD:RDTA output message.

5. REFERENCES

Input Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
VFY:RDTA
```

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Output Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-900-301 *ISDN Basic Rate Interface Specification*

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UPD:REBOOT

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the software update database be updated to reflect the backing out of any temporary administrative module (AM) updates active at the time of the reboot.

The software update processes will be informed automatically as part of a normal boot that a system reboot has occurred. Whenever a level 2 (or higher) reboot occurs, all temporary updates are, by definition, backed out.

2. FORMAT

```
UPD:REBOOT;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by one or more UPD:REBOOT output message(s).

`RL` = Retry later. Another UPD input message is active.

5. REFERENCES

Input Message(s):

```
UPD:BKOUT
UPD:DISPLAY
UPD:UPNAME
```

Output Message(s):

```
UPD:DISPLAY
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)

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1960 (INSTALL BWM)

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UPD:RECOVERY

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

2. FORMAT

```
UPD:RECOVERY:{BKWD|FRWD};
```

3. EXPLANATION OF MESSAGE

BKWD	= Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate update(s) from the affected processor(s) and file(s).
FRWD	= Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate update(s) to the affected processor(s) and files(s).

4. SYSTEM RESPONSE

OK	= Good. The request has been accepted. Followed by a UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

```
UPD:RCVRY
```

Output Message(s):

```
UPD:RCVRY
UPD:SYSERR
```

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:REDUCE

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests smaller, more concise software update database entries after all updates on the administrative module (AM) have been made official. The smaller entries are placed in a backup update database (/etc/Bud). The existing software update database (/etc/Cud) file is reduced so that the update entries for those SUs that can still be backed out normally or through an official backout (UPD:BOLO) are kept in the main database (/etc/Cud), while all other entries are saved in a more concise format in the backup update database.

2. FORMAT

```
UPD:REDUCE[:PTLD];
```

3. EXPLANATION OF MESSAGE

`PTLD` = This option will reset the software update sequence number to zero.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by UPD:REDUCE output message.

`RL` = Retry later. Another UPD input message is active.

5. REFERENCES

Output Message(s):

```
UPD:REDUCE
UPD:SYSERR
UPD:USRERR
UPD:WARNING
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:RESET-3B

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that if an operation to an administrative module (AM) field update fails, that update's status may be "reset" to a previously "accepted" state.

2. FORMAT

```
UPD:RESET[,VLEV=a];
```

3. EXPLANATION OF MESSAGE

`a` = The flag, '`a`', requests additional output form a Field Update process. Verbose flags may be set for UPD and ucm. The flags must be entered in the order the processes are listed. To turn on the verbose output for ucm, UPD's flag must be used or set to zero.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by UPD output messages.

5. REFERENCES

Input Message(s):

```
UPD:DISPLAY
UPD:OMIT
UPD:PERM
```

Output Message(s):

```
UPD:APPLY
UPD:BKOUT
UPD:BLDBOOT
UPD:CLR
UPD:DISPLAY
UPD:FTRC-3B
UPD:GEN-APPL
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
UPD:ISG
UPD:OMDB
```

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```
UPD:REDUCE
UPD:REPT
UPD:SYSERR
UPD:UPNM
UPD:USRERR
UPD:VFY
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

FIELD UPDATE PAGE

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UPD:RESET

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the soak timer duration (TM) of the software update (SU) that is currently soaking be updated, or that the soak timer for the SU that is currently soaking be stopped (ABORT), or that the line number (LINE) to be executed next for the SU loaded on the Master Control Center (MCC) 1960 page be changed.

2. FORMAT

```
UPD:RESET:[LINE=a|TM=b-c|ABORT];
```

3. EXPLANATION OF MESSAGE

`ABORT` = Stop the soak timer.

`a` = Reset execution to a specified line number displayed on the "1960" program update installation page (MSGS file). Line number is a 3-digit number. The default is 1 (first line of the MSGS file).

`b` = Number of hours in the software update soak interval (0-99).

`c` = Number of minutes in the software update soak interval (0-59).

4. SYSTEM RESPONSE

`OK` = Good. The message was accepted and the action completed.

5. REFERENCES

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:SET

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the setting of the SU (Software Update), the SOAK timer and the completed stage where the installation execution is to stop.

Format 1 is used for setting the SU name that will identify the packag to be scheduled for installation by the automation process. Note: To be used with UPD:INSTL:START; typically used internal to SU automation. Format 2 is used for stopping the SU installation process when either the SOAK stage or the PREPARE stage has completed. Format 3 is used to pre-set the SOAK time interval for SU installation. to pre-set the SOAK time interval for SU installation"

WARNING: Not to be confused with UPD:SKTMR:DEFLT; Typically used internal to SU automation; To be used with UPD:INSTL:START

2. FORMAT

```
[1]    UPD:SET:SU="a";

[2]    UPD:SET:STOP=b;

[3]    UPD:SET:TIMER="c";
```

3. EXPLANATION OF MESSAGE

`a` = SU name (maximum of 10 characters).

`b` = Stage. Valid value(s):
- `AFTSK` = After the soak stage.
- `AFTPR` = After the prepare stage.

`c` = Timer duration. In the form, `HH:MM` Total duration can not exceed 72 hours.
- `HH` = Number of hours that the soak timer duration should be set for.
- `MM` = Number of minutes that the soak timer duration should be set for.

4. SYSTEM RESPONSE

`NG` = No good.

`PFf` = Print follows.

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5. REFERENCES

Input Message(s):

```
UPD:INSTL
```

Output Message(s):

```
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

(SU INSTALLATION)

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UPD:SKTMR

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the SOAK timer either have its default time changed, timer restarted, timer report printed or timer canceled.

2. FORMAT

```
UPD:SKTMR:a;
```

3. EXPLANATION OF MESSAGE

`a` = Soak timer action. Valid value(s):

- `ABORT` = Cancel the soak timer. The soak timer must be restarted and allowed to complete before an SU can be made official.
- `DEFLT=b` = Change the default time used by the soak timer. Changing the default timer will have no effect on a running soak timer.
- `PRINT` = Print the soak timer report to the ROP.
- `RESET=b` = Restart the soak timer with a given duration. This will not affect the default time.

`b` = Duration in the form "`HH:MM`". Total duration is not to exceed 72 hours.

- `HH` = Number of hours.
- `MM` = Number of minutes.

4. SYSTEM RESPONSE

`NG` = No good.

`PF` = Print follows.

5. REFERENCES

Output Message(s):

```
UPD:SYSERR
UPD:USRERR
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

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MCC Display Page(s):

SU INSTALLATION

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UPD:SSD

Software Release: 5E15 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the shared secret data (SSD) associated with an *Air Extension*^{SM} wireless subscriber be updated. The SSD is subscriber specific data that is stored in both the wireless network controller (WNC) and every subscriber's wireless phone. This data is used for authentication, to prevent access by unauthorized subscribers, and for voice encryption, that provides call security.

This message may also be executed as part of the routine maintenance performed for an *Air Extension*^{SM} system to ensure maximum system security.

Caution: It may be useful to execute the OP:WCPE input message for the wireless subscriber before executing the UPD:SSD input message. Output from the OP:WCPE message may be needed later to help determine the results of an SSD update. Refer to the complete SSD update procedure in the *Air Extension*^{SM} Reference Guide.

2. FORMAT

```
UPD:SSD,DN=a;
```

3. EXPLANATION OF MESSAGE

`a` = 10 digit wireless directory number (DN).

4. SYSTEM RESPONSE

`RL` = Retry later. The request has been denied, probably due to system load.

`PF` = Printout follows. The request has been accepted and is followed by an UPD:SSD output message.

5. REFERENCES

Input Message(s):

```
OP:WCPE
```

Output Message(s):

```
OP:WCPE
REPT:AUTH
UPD:SSD
```

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Other Manual(s):
230-701-100 *Air Extension^{SM} Reference Guide*
230-701-120 *Air Extension^{SM} User Guide*

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UPD:STOP-INSTL

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Request that the SU installation process be stopped. The process will finish the current command line and then stop at that point."

2. FORMAT

```
UPD:STOP:INSTL;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good.

`PF` = Print follows.

5. REFERENCES

Output Message(s):

`UPD:SYSERR`

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

SU INSTALLATION

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UPD:STOP-SOAK

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

This input message should be used in conjunction with easy software update (SU) installation. Refer to Master Control Center (MCC) page 1940. It requests that the easy SU installation process stop the SU installation after the SOAK section of the SU has been completed. The input message should be used BEFORE easy SU installation is started using the UPD:START:EASYBWM input message.

2. FORMAT

```
UPD:STOP:SOAK;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request has been accepted.

5. REFERENCES

Input Message(s):

```
UPD:CHG-INST
UPD:START-EASY
```

Output Message(s):

```
UPD:EASY-BWM
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1940 (EASY BWM INSTALLATION)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:UPDCON

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of software update consistency and a summary of any software update inconsistencies that exist in the system.

2. FORMAT

```
UPD:UPDCON;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`OK` = Good. The request was accepted and is in progress. Followed by a UPD:VFYCON output message.

5. REFERENCES

Input Message(s):

```
UPD:VFYCON
```

Output Message(s):

```
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1940 (EASY BWM INSTALLATION)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)

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UPD:UPDDSPLY-A

Software Release: 5E15 - 5E17(1)
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests information about updates to the system through software update procedures.

Format 1 requests update information relating to a specific software update name.

Format 2 requests update information about all official (OFC) or temporary (TMP) updates.

Format 3 requests information on all (ALL) software updates in the software update database. The BACKLOG option retrieves concise software update database entries of all updates stored in /etc/Bud, the backup update database. Refer to the UPD:DISPLAY output message.

2. FORMAT

```
[1]    UPD:UPDDSPLY:BWM[=b];

[2]    UPD:UPDDSPLY:a[,V];

[3]    UPD:UPDDSPLY:ALL[,BACKLOG|,SUM|,V];
```

3. EXPLANATION OF MESSAGE

`a` = Update type. Valid value(s):
- `OFC` = Official update.
- `TMP` = Temporary update.

`b` = Software update name specified as BWMyy-nnnn, TMPyy-nnnnn (temporary) or CFTyy-nnnn where BWM, TMP and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update.

4. SYSTEM RESPONSE

`OK` = Good. The request has been accepted and a UPD:DISPLAY output message will follow.

5. REFERENCES

Input Message(s):

```
UPD:DISPLAY
UPD:REDUCE
```

Output Message(s):

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```
UPD:DISPLAY
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)

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UPD:UPDDSPLY-B

Software Release: 5E18(1) and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests information about updates to the system through software update procedures.

Format 1 requests update information relating to a specific software update name.

Format 2 requests update information about all official or temporary updates.

Format 3 requests information on all (ALL) software updates in the software u date database. The BACKLOG option retrieves concise software update database entries of all updates stored in /etc/Bud, the backup update database. Refer to the UPD:DISPLAY output message.

2. FORMAT

```
[1]    UPD:UPDDSPLY:BWM[=b];
       ____________________________________________________________

[2]    UPD:UPDDSPLY:a[,V];
       ____________________________________________________________

[3]    UPD:UPDDSPLY:ALL[,BACKLOG|,SUM|,V];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = Update type. Valid value(s):

`OFC`	= Official update.
`TMP`	= Temporary update.

`b` = Software update name specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary) or `CFTyy-nnnn`. Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year issued.
`rr`	= The release number [for example, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update.

4. SYSTEM RESPONSE

`OK` = Good. The request has been accepted. Followed by the UPD:DISPLAY output message.

5. REFERENCES

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Input Message(s):

```
UPD:DISPLAY
UPD:REDUCE
```

Output Message(s):

```
UPD:DISPLAY
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE

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UPD:VERSION-A

Software Release: 5E15 - 5E17(1)
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests update of the text version and/or software update level of the file system partitions. This information can be used to identify the partitions' text version and software update level should they become detached from the equipment configuration data base (ECD). Normally, this message is only entered by the software update updating procedure.

Format 1 is used to apply (advance) the version.

Format 2 is used to backout a version.

2. FORMAT

```
[1]    UPD:VERSION,APPLY="a"[,UCL];

[2]    UPD:VERSION,BKOUT="b"[,UCL];
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditional. This option is provided so the message is accepted if the software update procedure is executed with the UCL append option. It has no effect.

`a` = A quoted string indicating the new text version and software update level, with the format "`ccc(d)ee.ff ggghh-iiii`" where:

`ccc`	= The software release (such as '5e2').
`d`	= The issue (such as '1').
`ee`	= The release (such as '03').
`ff`	= The point (such as '04').
`ggg`	= The type (such as, 'BWM', 'CFT' or 'TMP').
`hh`	= The year (such as '85').
`iiii`	= The sequence number (such as '0123').

For example: "5e2(1)03.04 BWM85-0123"

To be consistent with system documentation, the release, point and year are padded with a leading zero, if need be, to obtain two digits. Likewise, the sequence number is padded with leading zeros to obtain four digits.

`b` = A quoted string indicating the previous text version and software update level. Refer to the version string format defined in variable '`a`'.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

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`x` = software release, issue, release point, type, year or sequence number. This item was not present in the version string. Correct and re-enter message.

`OK` = Good. Command accepted, no output message will follow.

`PF` = Printout follows. Command accepted, and a UPD:VERSION output message will follow.

5. REFERENCES

Input Message(s):

```
OP:VERSION
```

Output Message(s):

```
OP:VERSION
UPD:VERSION
```

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UPD:VERSION-B

Software Release: 5E18(1) and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests update of the text version and/or software update level of the file system partitions. This information can be used to identify the partitions' text version and software update level should they become detached from the equipment configuration database (ECD). Normally, this message is only entered by the software update updating procedure.

Format 1 is used to apply (advance) the version.

Format 2 is used to backout a version.

2. FORMAT

```
[1]    UPD:VERSION,APPLY="a"[,UCL];
       ____________________________________________________________

[2]    UPD:VERSION,BKOUT="b"[,UCL];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`UCL` = Unconditional. This option is provided so the message is accepted if the software update procedure is executed with the UCL append option. It has no effect.

`a` = A quoted string indicating the new text version and software update level, with the format "`cccc(d)ee.ff ggghh-iiii`" where:

`cccc`	= The software release (such as '5e18').
`d`	= The issue (such as '1').
`ee`	= The release (such as '03').
`ff`	= The point (such as '04').
`ggg`	= The type (such as, 'BWM', 'CFT' or 'TMP').
`hh`	= The release [such as '18' for 5E18(1)] for BWM software updates.
`hh`	= The year (such as '85') for CFT or TMP software updates.
`iiii`	= The sequence number (such as '0123').

For example:

```
"5e18(1)03.04 BWM18-0123"
"5e18(1)03.04 CFT04-0123"
```

To be consistent with system documentation, the release, point and year are padded with a leading zero, if need be, to obtain two digits. Likewise, the sequence number is padded with leading zeros to obtain four digits.

`b` = A quoted string indicating the previous text version and software update level. Refer to the

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version string format defined in variable 'a'.

4. SYSTEM RESPONSE

NG = No good. May also include:

x = Software release, issue, release point, type, year or sequence number. This item was not present in the version string. Correct and re-enter message.

OK = Good. Command accepted, no output message will follow.

PF = Printout follows. Command accepted, and a UPD:VERSION output message will follow.

5. REFERENCES

Input Message(s):

```
OP:VERSION
```

Output Message(s):

```
OP:VERSION
UPD:VERSION
```

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UPD:VFY-A

Software Release: 5E15 - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that software updates which are updates in the field update directory be updated. An update may be verified any number of times. Update filenames may also be displayed from this message.

2. FORMAT

```
UPD:VFY:{BWM="a"[-"a"[-"a"...]]|ALL}[,BSDIR="b"][,LIST];
```

3. EXPLANATION OF MESSAGE

`ALL` = Verify all software updates in the base directory that match the software update format in variable 'a'.

`LIST` = List all filenames received for the specified BWM(s).

`a` = Software update name. A list of 1 to 10 BWM names may be given, specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year, and nnnn is the sequence number identifying the software update. Refer to the Routine Operations and Maintenance manual for instructions on entering a list of names (" " is required).

`b` = Base directory name. Refer to the Routine Operations and Maintenance manual for definitions of directory, pathname, and file. The default is /etc/bwm.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by a UPD:VFY output message.

5. REFERENCES

Output Message(s):

```
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)

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1960 (INSTALL BWM)

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UPD:VFY-B

Software Release: 5E18(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that software updates which are updates in the field update directory be updated. An update may be verified any number of times. Update filenames may also be displayed from this message.

2. FORMAT

```
UPD:VFY:{BWM="a"[-"a"[-"a"...]]|ALL}[,BSDIR="b"][,LIST];
```

3. EXPLANATION OF MESSAGE

`ALL` = Verify all software updates in the base directory that match the software update format in variable '`a`'.

`LIST` = List all filenames received for the specified BWM(s).

`a` = Software update name, specified as `BWMrr-nnnn`, `TMPyy-nnnn` (temporary), or `CFTyy-nnnn`. Valid value(s):

`BWM`	= Indicates an off-site originated update.
`CFT`	= Indicates an on-site originated update.
`TMP`	= Indicates an off-site originated update.
`yy`	= The last two digits of the year.
`rr`	= The release number [for example, 18 for 5E18(1)].
`nnnn`	= The sequence number identifying the software update.

NOTE: Refer to the Routine Operations and Maintenance manual for instructions on entering a list of names (" " is required).

`b` = Base directory name. Refer to the Routine Operations and Maintenance manual for definitions of directory, pathname, and file. The default is /etc/bwm.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:VFY output message.

5. REFERENCES

Output Message(s):

```
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

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Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:VFYCON-A

Software Release: 5E15 only
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

2. FORMAT

```
UPD:VFYCON:{ALL|TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Verify update consistency of all processor images.

`a` = The processor image whose consistency is to be verified. Valid value(s):

`AMPATH`	= Office specific update in the AM.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access
`DNUSCC`	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
`DNUSTMX`	= Transmission multiplexer.
`DSC3`	= Digital service circuit - model 3.
`DSP13K`	= 8K digital signal processor for CDMA protocol handler for voice.
`DSP8K`	= 8K digital signal processor for CDMA protocol handler for voice.
`DSPEVRC`	= EVRC digital signal processor for CDMA protocol handler for voice.
`GDSF`	= Global digital services function - model 3.
`HDSU`	= Hardware digital service unit.
`HSAS`	= Service announcement system diagnostic image.
`IDCUCCP`	= Integrated digital carrier unit (IDCU) common control processor.
`IDCUDLP`	= IDCU data link processor.
`IDCULSI`	= IDCU loop side interface.
`IP3S`	= Protocol handler 3 CCS OIP image.
`IP4F`	= Frame relay protocol handler version 4 I/O processor.
`IP4I`	= PH4I operational input/output processor.
`IP4IF`	= ISDN Frame Relay protocol handler version 4 I/O processor.
`ISLU`	= Integrated services line unit.
`ISLU2`	= Integrated services line unit 2.
`ISTF`	= Integrated services test function.
`LDSU`	= Local digital service unit.
`LDSF`	= Local digital services function - model 3.
`MSGH`	= Message handler.
`ODMA`	= Operational direct memory access.
`OIOP`	= Operational input/output processor.
`PH2A`	= Protocol handler 2 (PH2) with ACCESS application processor image.
`PH2G`	= PH2 with GATEWAY application processor image.

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PH3C	= Protocol handler 3 (PH3) with COMMON application processor image.
PH3S	= PH3 CCS AP image.
PH4A	= Protocol handler 4 (PH4) access image.
PH4G	= PH4 gateway image.
PH4I	= PH4 with integrated services digital network (ISDN) application processor image.
PHA1A	= Protocol handler for ATM (asynchronous transfer mode).
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice for CDMA (code division multiple access).
PHV3C	= Protocol handler for voice version 3 for CDMA application.
PHV4C	= Protocol handler for voice version 4 for CDMA application.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SMPMH	= Switching module processor message handler (MH) operational image.
SMPMHLB	= Switching module processor MH little boot image.
V3DACP	= ACELP digital signal processor, for TDMA protocol handler for voice.
V4D13K	= 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K	= 8K DSP, for CDMA protocol handler for voice version 4.
V4DACP	= ACELP DSP, for TDMA protocol handler for voice version 4.
V4DEVR1	= EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4DEVR2	= EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4DEVR3	= EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP	= VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL	= ISLP DSP, for IS41 TDMA protocol handler for data circuit.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by the UPD:VFYCON output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
```

Output Message(s):

```
UPD:PMPPERF
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

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Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:VFYCON-B

Software Release: 5E16(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

2. FORMAT

```
UPD:VFYCON:{ALL|TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Verify update consistency of all processor images.

`a` = The processor image whose consistency is to be verified. Valid value(s):

`AMPATH`	= Office specific update in the AM.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access
`DNUSCC`	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
`DNUSTMX`	= Transmission multiplexer.
`DSC3`	= Digital service circuit - model 3.
`DSP13K`	= 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
`DSP8K`	= 8K digital signal processor for CDMA protocol handler for voice.
`DSPEVRC`	= EVRC digital signal processor for CDMA protocol handler for voice.
`GDSF`	= Global digital services function - model 3.
`HDSU`	= Hardware digital service unit.
`HSAS`	= Service announcement system diagnostic image.
`IDCUCCP`	= Integrated digital carrier unit (IDCU) common control processor.
`IDCUDLP`	= IDCU data link processor.
`IDCULSI`	= IDCU loop side interface.
`IP22`	= PH22 common input/output processor (IOP) image.
`IP3S`	= PH3 CCS IOP image.
`IP4F`	= Frame relay PH4 IOP image.
`IP4I`	= ISDN PH4 IOP image.
`IP4IF`	= ISDN frame relay PH4 IOP image.
`ISLU`	= Integrated services line unit.
`ISLU2`	= Integrated services line unit 2.
`ISTF`	= Integrated services test function.
`LDSU`	= Local digital service unit.
`LDSF`	= Local digital services function - model 3.
`MH32`	= Switching module processor message handler 32 (MH32) operational image.
`MHEIB`	= Switching module processor message handler EIB (MHEIB) operational

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	image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler power PC (MHEPPC) operational image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit - 24 channels.
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DACP	= ACELP DSP, for TDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

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4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:VFYCON output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
```

Output Message(s):

```
UPD:PMPPERF
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:VFYCON-C

Software Release: 5E16(2) - 5E17(1)
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

2. FORMAT

```
UPD:VFYCON:{ALL|TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Verify update consistency of all processor images.

`a` = The processor image whose consistency is to be verified. Valid value(s):

`AMPATH`	= Office specific update in the AM.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access
`DNUSCC`	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
`DNUSTMX`	= Transmission multiplexer.
`DSC3`	= Digital service circuit - model 3.
`DSP13K`	= 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
`DSP8K`	= 8K digital signal processor for CDMA protocol handler for voice.
`DSPEVRC`	= EVRC digital signal processor for CDMA protocol handler for voice.
`GDSF`	= Global digital services function - model 3.
`HDSU`	= Hardware digital service unit.
`HSAS`	= Service announcement system diagnostic image.
`IDCUCCP`	= Integrated digital carrier unit (IDCU) common control processor.
`IDCUDLP`	= IDCU data link processor.
`IDCULSI`	= IDCU loop side interface.
`IP22`	= PH22 common input/output processor (IOP) image.
`IP3S`	= PH3 CCS IOP image.
`IP4F`	= Frame relay PH4 IOP image.
`IP4I`	= ISDN PH4 IOP image.
`IP4IF`	= ISDN frame relay PH4 IOP image.
`ISLU`	= Integrated services line unit.
`ISLU2`	= Integrated services line unit 2.
`ISTF`	= Integrated services test function.
`LDSU`	= Local digital service unit.
`LDSF`	= Local digital services function - model 3.
`MH32`	= Switching module processor message handler 32 (MH32) operational image.
`MHEIB`	= Switching module processor message handler EIB (MHEIB) operational

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image.

MHLB = Switching module processor MH little boot image.

MHPPC = Switching module processor message handler *PowerPC*® (MHEPPC) operational image.

MHPPCLB = Switching module processor MHPPC little boot image.

MSGH = Message handler.

ODMA = Operational direct memory access.

OIOP = Operational input/output processor.

OIU24 = Optical interface unit (OIU) - 24 channels.

OIUIP = Optical interface unit - internet protocol (IP).

PH2A = Protocol handler 2 (PH2) ACCESS application processor (AP) image.

PH2G = PH2 GATEWAY AP image.

PH22I = PH22 wireless ISDN AP image.

PH22S = PH22 signaling AP image.

PH3C = PH3 COMMON AP image.

PH3S = PH3 CCS AP image.

PH4A = PH4 access AP image.

PH4G = PH4 gateway AP image.

PH4I = PH4 ISDN AP image.

PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.

PHA2A = Protocol handler for ATM model 2 AP image.

PHE2E = Protocol handler for ethernet.

PI = Packet interface.

PI2 = Packet interface unit 2.

PHV1C = Protocol handler for voice version 1 (PHV1) for CDMA AP image.

PHV2C = PHV2 for CDMA application AP image.

PHV3C = PHV3 for CDMA application AP image.

PHV4C = PHV4 for CDMA application AP image.

PHV5C = PHV5 for CDMA application AP image.

RAF = Recorded announcement function.

SAS = Service announcement system operational image.

SM = Switching module.

SM2K = Switching module-2000 (SM-2000).

SM2KFX = SM-2000 *PowerPC*® upgrade.

V3DACP = ACELP DSP for TDMA PHV3.

V4D13K = 13K DSP, for CDMA for PHV4.

V4D8K = 8K DSP, for CDMA for PHV4.

V4DACP = ACELP DSP, for TDMA for PHV4.

V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.

V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.

V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.

V4DVSP = VSELP DSP, for TDMA for PHV4.

V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.

V5D13K = 13K DSP, for CDMA for PHV5.

V5D8K = 8K DSP, for CDMA for PHV5.

V5DACP = ACELP DSP, for TDMA for PHV5.

V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.

V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.

V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.

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V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by the UPD:VFYCON output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
```

Output Message(s):

```
UPD:PMPPERF
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

1950	PROGRAM UPDATE MAINTENANCE
1960	INSTALL BWM

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UPD:VFYCON-D

Software Release: 5E18(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

2. FORMAT

```
UPD:VFYCON:{ALL|TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Verify update consistency of all processor images.

`a` = The processor image whose consistency is to be verified. Valid value(s):

- `AMPATH` = Office specific update in the AM.
- `CMP` = Communication module processor.
- `DDMA` = Diagnostic direct memory access
- `DNUSCC` = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- `DNUSTMX` = Transmission multiplexer.
- `DSC3` = Digital service circuit - model 3.
- `DSP13K` = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- `DSP8K` = 8K digital signal processor for CDMA protocol handler for voice.
- `DSPEVRC` = EVRC digital signal processor for CDMA protocol handler for voice.
- `GDSF` = Global digital services function - model 3.
- `HDSU` = Hardware digital service unit.
- `HSAS` = Service announcement system diagnostic image.
- `IDCUCCP` = Integrated digital carrier unit (IDCU) common control processor.
- `IDCUDLP` = IDCU data link processor.
- `IDCULSI` = IDCU loop side interface.
- `IP22` = PH22 common input/output processor (IOP) image.
- `IP3S` = PH3 CCS IOP image.
- `IP4F` = Frame relay PH4 IOP image.
- `IP4I` = ISDN PH4 IOP image.
- `IP4IF` = ISDN frame relay PH4 IOP image.
- `ISLU` = Integrated services line unit.
- `ISLU2` = Integrated services line unit 2.
- `ISTF` = Integrated services test function.
- `LDSU` = Local digital service unit.
- `LDSF` = Local digital services function - model 3.
- `MH32` = Switching module processor message handler 32 (MH32) operational image.
- `MHEIB` = Switching module processor message handler EIB (MHEIB) operational

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	image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler PowerPC\(rg (MHEPPC) operational image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit (OIU) - 24 channels.
OIUIP	= Optical interface unit - internet protocol (IP).
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
PHV6C	= PHV6 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 PowerPC\(rg upgrade.
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K + EVRC DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.
V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.

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V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.
V6D13K	= 13K + EVRC DSP, for CDMA for PHV6.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by the UPD:VFYCON output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
```

Output Message(s):

```
UPD:PMPPERF
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:VFYCON-E

Software Release: 5E19(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

2. FORMAT

```
UPD:VFYCON:{ALL|TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Verify update consistency of all processor images.

`a` = The processor image whose consistency is to be verified. Valid value(s):

`AMPATH`	= Office specific update in the AM.
`CMP`	= Communication module processor.
`DDMA`	= Diagnostic direct memory access
`DNUSCC`	= Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
`DNUSTMX`	= Transmission multiplexer.
`DSC3`	= Digital service circuit - model 3.
`DSP13K`	= 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
`DSP8K`	= 8K digital signal processor for CDMA protocol handler for voice.
`DSPEVRC`	= EVRC digital signal processor for CDMA protocol handler for voice.
`GDSF`	= Global digital services function - model 3.
`HDSU`	= Hardware digital service unit.
`HSAS`	= Service announcement system diagnostic image.
`IDCUCCP`	= Integrated digital carrier unit (IDCU) common control processor.
`IDCUDLP`	= IDCU data link processor.
`IDCULSI`	= IDCU loop side interface.
`IP22`	= PH22 common input/output processor (IOP) image.
`IP3S`	= PH3 CCS IOP image.
`IP4F`	= Frame relay PH4 IOP image.
`IP4I`	= ISDN PH4 IOP image.
`IP4IF`	= ISDN frame relay PH4 IOP image.
`ISLU`	= Integrated services line unit.
`ISLU2`	= Integrated services line unit 2.
`ISTF`	= Integrated services test function.
`LDSU`	= Local digital service unit.
`LDSF`	= Local digital services function - model 3.
`MH32`	= Switching module processor message handler 32 (MH32) operational image.
`MHEIB`	= Switching module processor message handler EIB (MHEIB) operational

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	image.
MHLB	= Switching module processor MH little boot image.
MHPPC	= Switching module processor message handler PowerPC\(rg (MHEPPC) operational image.
MHPPCLB	= Switching module processor MHPPC little boot image.
MSGH	= Message handler.
ODMA	= Operational direct memory access.
OIOP	= Operational input/output processor.
OIU24	= Optical interface unit (OIU) - 24 channels.
OIUIP	= Optical interface unit - internet protocol (IP).
PH2A	= Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G	= PH2 GATEWAY AP image.
PH22I	= PH22 wireless ISDN AP image.
PH22S	= PH22 signaling AP image.
PH3C	= PH3 COMMON AP image.
PH3S	= PH3 CCS AP image.
PH4A	= PH4 access AP image.
PH4G	= PH4 gateway AP image.
PH4I	= PH4 ISDN AP image.
PHA1A	= Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A	= Protocol handler for ATM model 2 AP image.
PHE2E	= Protocol handler for ethernet.
PHE3B	= Protocol handler for IP backhaul image.
PI	= Packet interface.
PI2	= Packet interface unit 2.
PHV1C	= Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C	= PHV2 for CDMA application AP image.
PHV3C	= PHV3 for CDMA application AP image.
PHV4C	= PHV4 for CDMA application AP image.
PHV5C	= PHV5 for CDMA application AP image.
PHV6C	= PHV6 for CDMA application AP image.
RAF	= Recorded announcement function.
SAS	= Service announcement system operational image.
SM	= Switching module.
SM2K	= Switching module-2000 (SM-2000).
SM2KFX	= SM-2000 PowerPC\(rg upgrade.
V3DACP	= ACELP DSP for TDMA PHV3.
V4D13K	= 13K DSP, for CDMA for PHV4.
V4D8K	= 8K DSP, for CDMA for PHV4.
V4DACP	= ACELP DSP, for TDMA for PHV4.
V4DEVR1	= EVRC1 DSP, for CDMA for PHV4.
V4DEVR2	= EVRC2 DSP, for CDMA for PHV4.
V4DEVR3	= EVRC3 DSP, for CDMA for PHV4.
V4DVSP	= VSELP DSP, for TDMA for PHV4.
V4DISL	= ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K	= 13K + EVRC DSP, for CDMA for PHV5.
V5D8K	= 8K DSP, for CDMA for PHV5.
V5DEVR1	= EVRC1 DSP, for CDMA for PHV5.
V5DEVR2	= EVRC2 DSP, for CDMA for PHV5.

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V5DEVR3	= EVRC3 DSP, for CDMA for PHV5.
V5DVSP	= VSELP DSP, for TDMA PHV5.
V5DISL	= ISLP DSP, for IS41 TDMA PHV5 data circuit.
V6D13K	= 13K + EVRC DSP, for CDMA for PHV6.

4. SYSTEM RESPONSE

PF	= Printout follows. The request has been accepted. Followed by the UPD:VFYCON output message.

5. REFERENCES

Input Message(s):

UPD:PMPPERF

Output Message(s):

UPD:PMPPERF
UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM

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UPD:VFYCON-F

Software Release: 5E20(1) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

2. FORMAT

```
UPD:VFYCON:{ALL|TARGET=a};
```

3. EXPLANATION OF MESSAGE

`ALL` = Verify update consistency of all processor images.

`a` = The processor image whose consistency is to be verified. Refer to the APP:TARGETS appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the UPD:VFYCON output message.

5. REFERENCES

Input Message(s):

```
UPD:PMPPERF
```

Output Message(s):

```
UPD:PMPPERF
UPD:SYSERR
UPD:USRERR
UPD:VFYCON
```

Input Appendix(es):

```
APP:TARGETS
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

MCC Display Page(s):

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1950	PROGRAM UPDATE MAINTENANCE
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82. VFY

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VFY:AMATAPE

Software Release: 5E15 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that a particular tape drive be set to the automatic message accounting (AMA) function and that the tape on that tape drive be verified.

2. FORMAT

```
VFY:AMATAPE:MT=a[,ST1|,ST2];
```

3. EXPLANATION OF MESSAGE

`ST1` = Send AMA data to the ST1 data stream.

`ST2` = Send AMA data to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

`a` = Tape drive number.

4. SYSTEM RESPONSE

`IP` = In progress. Followed by a REPT:AMATAPE-VER output message if the tape option is in effect and there is no tape session in progress.

`NG` = No good. A tape writing or verification session is in progress or the teleprocessing option is in effect, or AMA sessions have been manually inhibited, or data stream checks failed.

`PF` = Printout follows. Invalid data was encountered while processing the input message. In this case, an audit printout will follow.

`RL` = Retry later. A message could not be sent to the AMA monitor process.

`?I` = The tape drive number specified on the input message was invalid.

5. REFERENCES

Input Message(s):

```
OP:AMA-STREAM
OP:AMA-CONTROLF
```

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Output Message(s):

```
REPT:AMATAPE-VER
```

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VFY:AUTH

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Verifies authority settings for the originating terminal. The VFY:AUTH output message displays the following authority information for the current terminal session: authority level, terminal identity, user identity, and command groups permitted.

This input message is associated with maintenance interface security. Refer to the Routine Operations and Maintenance manual for further information.

2. FORMAT

```
VFY:AUTH;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The person authority database and/or terminal authority database is inaccessible or does not exist.

`PF` = Printout follows. Followed by VFY:AUTH output message.

5. REFERENCES

Input Message(s):

```
ADD:PAUTH
ADD:PCGRP
ADD:TAUTH
ADD:TCGRP
VFY:PAUTH
VFY:PCGRP
VFY:TAUTH
VFY:TCGRP
```

Output Message(s):

```
REPT:LOGIN
VFY:AUTH
VFY:PAUTH
VFY:PCGRP
```

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```
VFY:TAUTH
VFY:TCGRP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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VFY:CPU

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that all lines assigned to a specific call pickup group (CPUG) number or lines having a form of directed call pickup be queried and reported.

2. FORMAT

```
VFY:CPU[,TN=a[-b]|,MLHG=c[&&d]-e[&&f]][,CPUG=g[-g][-g][-g][-g]]
[,TYPE=h][,DEVICE=j][,NTFY=k];
```

3. EXPLANATION OF MESSAGE

`a` = Telephone number (TN) or the lower limit of a range of TNs.

`b` = Upper limit of a range of TNs. If entered CPUG is also required.

`c` = Multi-line hunt group (MLHG) number or the lower limit of a range of MLHG numbers (1-2000).

`d` = Upper limit of a range of MLHG numbers.

`e` = MLHG terminal member number or the lower limit of a range of MLHG member numbers (1-2015).

`f` = Upper limit of a range of MLHG members.

`g` = Call pickup group (CPUG) number (2-65535).

`h` = Type of call pickup. Valid value(s):

- `B` = Both originating and terminating.
- `D` = Directed.
- `O` = Originating.
- `T` = Terminating.

`j` = Destination device or file for the report. The device or file name is input as a character string and must be enclosed with double quote characters. If the input string is prefixed by a slash (/), the destination will be taken as the name of a file. The length of the file name should not exceed 30 characters.

The default destination for single CPUGs or single line is the name of the default tty device obtained from the environment variable LCHAN. The default destination for multiple CPUGs is the FILE vfycpu. Files are stored in the directory (/rclog).

`k` = Visual notification for originating call pickup. Valid value(s):

- `N` = No, the visual notification is not provided.
- `Y` = Yes, the visual notification is provided.

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4. SYSTEM RESPONSE

`NG` = No good. An invalid argument in the input message was given or the default output device could not be determined.

`PF` = Printout follows. The request was received. Followed by the VFY:CPU output message.

`RL` = Retry later. The VFY:CPU process was not able to allocate temporary file resources.

5. REFERENCES

Output Message(s):

`VFY:CPU`

Other Manual(s):
235-190-103 *Business and Residence Feature Description*

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VFY:FILE-A

Software Release: 5E15 - 5E16(1)
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the contents of files that are essential to the booting of the administrative module (AM) be verified.

Format 1 is used to verify `/dev/boot`, `/dev/lboot`, `/dev/vtoc`, `/appdmert`, and `/dmert` only.

Format 2 is used to verify a single file or a list of files.

Format 3 is used to verify all essential files within a database partition.

2. FORMAT

```
[1]    VFY:FILE
       ;
```

```
[2]    VFY:FILE:{FN="a b"|FLIST="c"[, DELTA]}[,MP="d". . .
       . . .[,OLMP="e"][,DN=f,OFLPN=g]][,GEN|,PRINT];
       ;
```

```
[3]    VFY:FILE:PKNAME ["h"],PKNUM[=i],DBPN[=j][,MP="d". . .
       . . .[,OLMP="e"][,DN=f,OFLPN=g]][,PRINT];
       ;
```

3. EXPLANATION OF MESSAGE

`a` = A string containing the full path of the essential file to be verified.

`b` = A string of 1 to 3 characters that indicates the type of checking to be performed in the form:

`g|i|n|[X][-|1|2|B|C|I|D|P]`

The first character must be '`g`', '`i`', or '`n`'. The first character may be followed by the letter '`X`'. If '`X`' appears, then the file is checked for execution permission by the owner. The last character, if specified, indicates that the file type is to be checked.

Valid value(s):

- `g` = The cyclic redundancy check (CRC) information is stored globally.
- `i` = The CRC information is stored internally.
- `n` = The CRC information is not to be checked. If CRC information is not to be checked, then at least one additional character must appear in the string.
- `-` = Regular.
- `1` = Contiguous.
- `2` = Multi-extent.
- `B` = Block special.
- `C` = Character special.

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`I` = IOP special.
`R` = Record special.
`D` = Director.
`P` = Pipe.

The checks for executable by owner and file type are optional as long as CRC checking is specified. If CRC checking is inhibited, then at least one of the optional checks must be specified.

`c` = The full pathname of a specification file containing entries in the format of variables '`a`' and '`b`'.

`d` = The full pathname of the directory where the database partition is mounted or where the off-line partition is to be mounted; default is "/".

`e` = The corresponding on-line mount point (OLMP) of the file system containing the files being verified. For a non-root file system, if the file names stored in `/.crcvalues` were stored relative to "/" (for example, no MP option was used when the CRC was generated and stored), then the OLMP option must be used when verifying the contents of a copy of this file which resides on an off-line partition.

`f` = The number of the off-line disk which contains the files to be verified. Legal values are 0 to 31. The default is to use the on-line disks.

`g` = The number of the off-line disk partition to be verified. Legal values are 0 to 63. The default is to use on-line disk partitions.

`h` = A two-character string indicating the pack name of the SG database partition to be verified. This value is the same as the pack_name field in the fs record for the database partition. Default is "rt."

`i` = The pack number which corresponds to the pack_number field in the fs record for the database partition being verified. Legal values are 0 to 32767; default is 0.

`j` = The SG database partition number of the SG database partition corresponding to the par_number in the partition's fs record. Legal values are 0 to 63; default is 5.

When Format 1 is entered, it defaults to verifying `/dev/boot`, `/dev/lboot`, `/dev/vtoc`, `/appdmert`, and `/dmert`. To use the database partition defaults, the user must supply at least one of the SG database options.

If the DELTA keyword is used and if VFY:FILE is using the FLIST keyword and finds a file name in the specification file with the checking option "`g`," but that file is not found in the global crcvalue file, then VFY:FILE will generate an entry for that file in the global crcvalue file.

The GEN keyword will cause VFY:FILE to generate and store CRC information for the file or list of files provided.

GEN and DELTA make the assumption that the contents of each the files is correct before VFY:FILE is run and should be used only with extreme caution.

The PRINT option causes VFY:FILE to print the CRC information which it calculates for each essential file

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specified. No actual verification of the CRC information takes place.

The PRINT and GEN options may not be used together.

NOTE: The option to inhibit CRC checking should not be used unless checking CRC information for the specified file is not appropriate. Do not view this option as a fast way to verify essential files.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the VFY:FILE output message.

5. REFERENCES

Output Message(s):

`VFY:FILE`

Other Manual(s):
235-105-250 *System Recovery Procedures*
235-600-31x *ECD/SG Data Base*

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VFY:FILE-B

Software Release: 5E16(2) and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the contents of files that are essential to the booting of the administrative module (AM) be verified.

Format 1 is used to verify `/dev/boot`, `/dev/lboot`, `/dev/vtoc`, `/appdmert`, and `/dmert` only.

Format 2 is used to verify a single file or a list of files.

Format 3 is used to verify all essential files within a database partition.

NOTE: Only one instance of a VFY:FILE process is allowed to run at one time. The VFY:FILE process will deny any request to start another instance until the current running process completes.

2. FORMAT

```
[1]    VFY:FILE
       ___________________________________________________________

[2]    VFY:FILE:{FN="a b"|FLIST="c"[, DELTA]}[,MP="d". . .
       . . .[,OLMP="e"][,DN=f,OFLPN=g]][,GEN|,PRINT];
       ___________________________________________________________

[3]    VFY:FILE:PKNAME ["h"],PKNUM[=i],DBPN[=j][,MP="d". . .
       . . .[,OLMP="e"][,DN=f,OFLPN=g]][,PRINT];
       ___________________________________________________________
```

3. EXPLANATION OF MESSAGE

`a` = A string containing the full path of the essential file to be verified.

`b` = A string of 1 to 3 characters that indicates the type of checking to be performed in the form:

`g|i|n|[X][-|1|2|B|C|I|D|P]`

The first character must be '`g`', '`i`', or '`n`'. The first character may be followed by the letter '`X`'. If '`X`' appears, then the file is checked for execution permission by the owner. The last character, if specified, indicates that the file type is to be checked.

Valid value(s):

- `g` = The cyclic redundancy check (CRC) information is stored globally.
- `i` = The CRC information is stored internally.
- `n` = The CRC information is not to be checked. If CRC information is not to be checked, then at least one additional character must appear in the string.
- `-` = Regular.
- `1` = Contiguous.
- `2` = Multi-extent.

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B = Block special.
C = Character special.
I = IOP special.
R = Record special.
D = Director.
P = Pipe.

The checks for executable by owner and file type are optional as long as CRC checking is specified. If CRC checking is inhibited, then at least one of the optional checks must be specified.

c = The full pathname of a specification file containing entries in the format of variables 'a' and 'b'.

d = The full pathname of the directory where the database partition is mounted or where the off-line partition is to be mounted; default is "/".

e = The corresponding on-line mount point (OLMP) of the file system containing the files being verified. For a non-root file system, if the file names stored in `/.crcvalues` were stored relative to "/" (for example, no MP option was used when the CRC was generated and stored), then the OLMP option must be used when verifying the contents of a copy of this file which resides on an off-line partition.

f = The number of the off-line disk which contains the files to be verified. Legal values are 0 to 31. The default is to use the on-line disks.

g = The number of the off-line disk partition to be verified. Legal values are 0 to 63. The default is to use on-line disk partitions.

h = A two-character string indicating the pack name of the SG database partition to be verified. This value is the same as the pack_name field in the fs record for the database partition. Default is "rt."

i = The pack number which corresponds to the pack_number field in the fs record for the database partition being verified. Legal values are 0 to 32767; default is 0.

j = The SG database partition number of the SG database partition corresponding to the par_number in the partition's fs record. Legal values are 0 to 63; default is 5.

When Format 1 is entered, it defaults to verifying `/dev/boot`, `/dev/lboot`, `/dev/vtoc`, `/appdmert`, and `/dmert`. To use the database partition defaults, the user must supply at least one of the SG database options.

If the DELTA keyword is used and if VFY:FILE is using the FLIST keyword and finds a file name in the specification file with the checking option "g," but that file is not found in the global crcvalue file, then VFY:FILE will generate an entry for that file in the global crcvalue file.

The GEN keyword will cause VFY:FILE to generate and store CRC information for the file or list of files provided.

GEN and DELTA make the assumption that the contents of each the files is correct before VFY:FILE is run and should be used only with extreme caution.

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The PRINT option causes VFY:FILE to print the CRC information which it calculates for each essential file specified. No actual verification of the CRC information takes place.

The PRINT and GEN options may not be used together.

NOTE: The option to inhibit CRC checking should not be used unless checking CRC information for the specified file is not appropriate. Do not view this option as a fast way to verify essential files.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the VFY:FILE output message.

5. REFERENCES

Output Message(s):

`VFY:FILE`

Other Manual(s):
235-105-250 *System Recovery Procedures*
235-600-31x *ECD/SG Data Base*

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VFY:MHD

Software Release: 5E15 and later
Command Group: AM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Reads all or specific disk tracks/blocks and verifies the header and error-correction code of each sector of the tracks/blocks read. The error-correction code is read to verify the correctability of the data in each sector.

For storage module drive (SMD) disk drives, the header contains the cylinder, track, and sector identification numbers, and should match the SMD disk file controller (DFC) internal head position data. For small computer system interface (SCSI) disk drives, the error-correction code is read to verify the correct ability of the data in each disk block. The moving head disk (MHD) does not have to be in the active state for this input message to work.

Note: It may take several minutes to verify a complete disk. For SMD DFC, this request may fail to complete if it is input while another MHD related request is active on the same DFC. If this happens, repeat the request after the other input message completes. For SCSI DFC, a maximum of two "verify" requests are possible for different MHDs on the same DFC.

WARNING: This message should not be executed when either the AM or CM REX are running. Executing this message at those times can result in call processing problems.

2. FORMAT

```
[1]    VFY:MHD=a [,TRACK=b[&&c]];

[2]    VFY:MHD=a [,BLOCK=b[&&c]];
```

3. EXPLANATION OF MESSAGE

`a` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = There are two different formats depending on the type of MHD (SMD or SCSI). Valid value(s):

- Track(s) of the SMD MHD to be verified, in decimal notation. May be the first track of a range (0-17604).
- Block(s) of the SCSI MHD to be verified, in decimal notation. May be the first block of a range (0-2147483646).

`c` = The last track/block of a range of tracks (0-17064 or 0-2147483646).

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4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by VFY:MHD output message.

5. REFERENCES

Input Message(s):

`INIT:MHD`

Output Message(s):

`VFY:MHD`

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-220 *Corrective Maintenance*

MCC Display Page(s):

123 (DISK FILE SYSTEM ACCESS)

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VFY:MLHG

Software Release: 5E15 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests a report to verify all the members of a multi-line hunt group (MLHG). The report quickly provides information on all members of a particular MLHG. The message is useful for trouble shooting MLHG data.

2. FORMAT

```
VFY:MLHG,GROUP=a[,DEVICE="b"][,REPORT=c];
```

3. EXPLANATION OF MESSAGE

`a` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Destination device or file for the report. The device or file name is input as a character string and must be inclosed with double quotation marks. If the input string is prefixed by a slash (/), the destination will be taken as the name of a file. The length of the file name must not exceed thirty (30) characters. The default destination is the name of the default tty device obtained from the environment variable LCHAN.

`c` = Type of report. Valid value(s):

- `G` = Report group.
- `M` = Report member.
- `B` = Report both group and member.

4. SYSTEM RESPONSE

`NG` = No good. An invalid argument in the input message was given or the default output device could not be determined.

`PF` = Printout follows. Followed by the report on the specified destination device/file.

`RL` = Retry later. The VFY:MLHG process was not able to allocate temporary file resources.

5. REFERENCES

None

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VFY:OFC-A

Software Release: 5E15 - 5E16(1)
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests verification of office routing translations, used in call processing, from the originating line or trunk to the terminating line or trunk.

This input message supports routing for voice calls. This includes intra- and inter-office calls. This input message examines routing of voice calls including automatic route selection (ARS) voice calls. For Format 1, this message supports verification of switch number portability (NP) routing information and recognition of LRNs in routing tables. This format also supports verification of provisioned routing information for long distance platform (LDP).

For Format 2, this message supports routing for circuit-switched data (CSD), except for certain features like automatic route selection (ARS). This includes intra- and inter-office CSD calls. This input message also supports verification of switch number portability (NP) routing information and recognition of LRNs in routing tables. This format also supports verification of provisioned routing information for long distance platform (LDP), with the ability to verify wideband data rates for LDP calls.

For Format 3, this input supports routing for packet-switched data (PSD) calls. This includes intra- and inter-office PSD calls.

2. FORMAT

```
[1]    VFY:OFC,[CSV],{DN=a|TG=b[-c]|MLHG=d-e|PORT=f-g}[,DIG=h]
         [,LRN=l|PORTEDDN=m|NONPORTED][,ANI=n][,II=o|OLI=p]
         [,CALLTYPE=q][,CIC=r][,TNS=s-t][,CC=u][,SAT][,TNSC=v]
         [,PRESUBSC];

[2]    VFY:OFC,CSD,{DN=a|TG=b[-c]|MLHG=d-e},{DATARATE=w|WBRATE=x|
         WBCHANNEL=y}[,DIG=h][,LRN=l|PORTEDDN=m|NONPORTED][,ANI=n]
         [,II=o|OLI=p][,CALLTYPE=q][,CIC=r][,TNS=s-t][,CC=u][,SAT]
         [,TNSC=v][,PRESUBSC];

[3]    VFY:OFC,PKT,{DN=a[,MLHG=d-e]|TG=b[-c]|MLHG=d-e}
         [,RPOA=i][,ICPI=j][,PSN=k][,DIG=h];
```

3. EXPLANATION OF MESSAGE

`a` = Directory number (DN) of the line whose translations are to be verified.

`b` = Trunk group number of the trunk whose translations are to be verified. This field may be used to enter a Bearer Independent Call Control (BICC) Trunk group. If a Service Trunk group is entered, an error will be returned.

`c` = Optional member number of the trunk group whose translations are to be verified. If not specified, the first assigned member is used. The member value cannot be entered if the trunk group specified is a BICC trunk group. The base CIC is used to process all BICC requests.

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d = Group number of the multi-line hunt group line whose translations are to be verified.

e = Member number of the multi-line hunt group line whose translations are to be verified.

f = Module number (key to RLPORTLA) of the port whose translations are to be verified.

g = Port name (key to RLPORTLA) of the port whose translations are to be verified.

h = Optional address digits of call to be verified. This field should contain the LRN when PORTEDDN is also entered. Must be specified unless the call is from a manual or direct connect line, trunk or unless a packet switch number (PSN) is input for Packet. The special characters "#" and "*" may be included along with numeric digits by surrounding the entire field with double quotation marks. If no special characters are entered, then the quotation marks are optional.

It is a general rule-of-thumb that whenever there is timing in a digit sequence that the customer can end by dialing a #, then that # must be included in the input digit string. This is normally the case with ambiguous or conflict sequences.

For example, in the case of using an IDP and dialing an escape to POTS dial code followed by ODP dial code (which starts with a # sign) and possibly more digits, a # sign needs to be inserted in the digit string between the escape to POTS code and the dial code. The customer dialing the following sequence 9 (action DPOTSA defined in IDP), #8 (ARSUSE code defined in ODP) and 5610000 (a DN) would enter this digit string in the input message as dig="9##85610000".

This is because this input message works off the digit string and cannot do critical interdigit timing as is done when the digits are being collected from a user. Entering the digit string above as "9#85610000" would result in the # being read as end of critical interdigit timing and the ODP would be left to incorrectly interpret the digits 85610000.

For LDP calls, the value of this field depends on the CALLTYPE input field (variable 'q'). Please refer the tables under the explanation of CALLTYPE input field for valid values.

i = Optional Registered Private Operating Agency, a four-digit Data Network Interexchange Carrier (DNIC) used with packet routing.

j = Optional Interexchange Carrier Preselect Indication, a four-digit DNIC used with packet routing.

k = Optional Packet Switch Number, a number between 1 and 255, inclusive, used in Internal Protocol Packet routing as the destination of the call.

l = Optional ten digit Location Routing Number.

m = Ported DN, generic address parameter (SS7 ISUP). Variable 'h' contains the LRN. This overrides the LNP query. No LNP query will be done when LRN is entered.

n = Optional automatic number identification (ANI). ANI is a required field for LDP LATA trunks. Valid value(s):

10 digit NPA-NXX-XXXX

3 digit NPA

NULL = The NULL value shall be valid only when DIG=950-XXXX for

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CALLTYPE=FGB or FGBPS.

o = Optional ANI information digits (II) for a MF trunk. Valid value(s):

00	= Identified line with no special treatment.
01	= Operator number identified (multiparty).
02	= ANI failure.
06	= Hotel without room identification.
07	= Coinless, hospital, or inmate call.
08	= Interlata restricted.
10	= Test call.
20	= Automatic input/output dialing (AIOD) listed directory number sent.
23	= Identified line (coin or noncoin).
24	= Translated 800 call.
27	= Coin line.
34	= Operator handled.
52	= Outbound wide area transport (OUTWATS) line.
68	= Interlata restricted hotel line.
78	= Interlata restricted coinless line.
93	= Virtual private network line.
NULL	= NULL input, valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS calls.

The default value for this field is 00.

p = Optional originating line information (OLI) for a CCS7 trunk. Valid value(s):

IDLINE	= Identified line with no special treatment.
01	= Operator number identified (multiparty).
02	= ANI failure.
06	= Hotel without room identification.
07	= Coinless, hospital, or inmate call.
08	= Interlata restricted.
10	= Test call.
20	= Automatic input/output dialing (AIOD) listed directory number sent.
23	= Identified line (coin or noncoin).
24	= Translated 800 call.
27	= Coin line.
34	= Operator handled.
52	= Outbound wide area transport (OUTWATS) line.
68	= Interlata restricted hotel line.
78	= Interlata restricted coinless line.
93	= Virtual private network line.
NULL	= NULL input, valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS calls.

The default value for this field is IDLINE.

q = Optional calltype prefix of the dialed number. This also corresponds to the nature of number value for CCS7 signaling. Valid value(s):

1P = World zone 1, non-operator.
0P = World zone 1, zero plus.
011 = International, non-operator.
01P = International 01 plus (dialed as 01+CC+NN).
01M = International 01 minus.
DOM = Domestic (United States).
FGB = FGB (950-xxxx) calls from transition EAEO/AT.
FGBPS = FGB (950-xxxx) calls from public station during and after the transition.
FGDCT = Feature group D cutthrough calls.

The default value for this field is DOM.

If calltype is 011, 01P, 1P or 0P only the national number digits have to be entered on the DIG field on input. No prefixes should be present on the DIG= field. The software will add appropriate prefixes based on CALLTYPE. The software will also add the country code from input command for international calls.

If CALLTYPE is 01M, DIG= and CC= should not be entered on input. Software will analyze this as an international operator call based on CALLTYPE.

If CALLTYPE is DOM, user has to enter the actual digit string to be analyzed along with necessary prefixes. For example, if the user wants a DOMESTIC operator call, the digit string must have a 0 prefix on the DIG= field.

Table 1: Mapping of CALLTYPE to CCS7 Nature of Address/Switch Prefixing

The following table describes relationship between certain input parameter combinations and how the switch processes them for ISUP signaling.

Fields CALLTYPE, DIG, CC, TNS are VFY:OFC input fields.

CCS7 nature of address is the nature of address assigned to the call based on these inputs.

Switch prefix is the prefix that the switch adds to the called party number based on these inputs.

CALLTYPE	DIG (to be input)	CC (to be input)	TNS (to be input)	CCS7 Nature of address	Switch Prefix
011	National number	Required	Required	International number	011
01P	National number	Required	Required	International number, operator requested	01
01M	No digits	Not required	Required	No number present, operator requested	00
1P	National number	Not required	Required	National (significant) Number	NONE
0P	National number	Not required	Required	National number, operator	0

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				requested	
DOM	Switch does not prefix any digits Actual digit string to be analyzed has to be input	Not required	Not required	National (significant) Number	NONE
FGB, FGBPS	950xxxx	Not required	Not required	950+ type calls	NONE
FGDCT	Not required	Not required	Not required	Cutthru to carrier	NONE

Table 2: Mapping of CALLTYPE to switch prefix for MF signaling

The following table describes relationship between certain input parameter combinations and how the switch processes them for MF signaling.

Fields CALLTYPE, DIG, CC, CIC are VFY:OFC input fields.

Switch prefix is the prefix that the switch adds to the called party number based on these inputs.

CALLTYPE	DIG (to be input)	CC (to be input)	CIC (to be input)	Switch prefix
011	National number	Required	Required	011
01P	National number	Required	Required	01
01M	No digits	Not required	Required	Prefix 0 to "KP-0-ST" to become "KP-00-ST"
1P	National number	Not required	Required	NONE
0P	National number	Not required	Required	NONE
DOM	Switch does not prefix any digits Actual digit string to be analyzed has to be input	Not required	Not required	NONE
FGB, FGBPS	9500000 or Blank	Not required	Not required	NONE
FGDCT	Not required	Not required	Not required	NONE

`r` = Optional carrier identification code (CIC). CIC can be 3 digit(0-999) or 4 digit(0-9999).

`s` = Optional circuit code for transit network selector (TNS). Valid values are in the range 0-15. For incoming MINT trunk, any value specified for TNS is ignored.

`t` = Optional carrier code for transit network selector (TNS). Valid carrier code can be 3 digit(0-999) or 4 digit(0-9999). For incoming MINT trunk, any value specified for TNS is ignored.

`u` = Optional 3 digit(0-999) country code for the called number.

`v` = Optional terminating network selection code (TNSC), relevant only for specified MINT trunks. Valid values are in the range 0-999. Default value is 1.

`w` = Narrowband data rate for CSD calls. Valid value(s):

- `56` = 56-kbps, unrestricted digital information, circuit-mode, rate adapted from 56-kbps.
- `64` = 64-kbps, unrestricted digital information, circuit-mode.
- `R64` = 64-kbps, restricted digital information, circuit-mode, rate adapted from 56-kbps.

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`x` = Wideband data rate for CSD calls. Valid value(s):

`384` = 384 kbps.
`384_1536` = 384 or 1536 kbps.
`1536` = 1536 kbps.

`y` = Wideband data rate channel for CSD calls. Wideband channel specifies the number of DS0s requested for the call. The number of DS0s is the information transfer rate multiplier value. This field will always be included for "multi-rate" calls. Valid values for this field are between 2 and 24.

`NONPORTED` = Presence of this key indicates that dig= value is known to be nonported.

`PRESUBSC` = Optional keyword to indicate if the calling party is presubscribed to the carrier associated with this call.

`SAT` = Optional keyword to indicate if the call has been routed via satellite. For SS7, SAT keyword is valid for all trunks. For MF, SAT keyword can only be used for MINT trunks.

4. SYSTEM RESPONSE

`NG` = No good. May also include:

```
- ANI PARAMETER MUST BE 3 or 10 DIGITS OR ENTERED AS NULL
- ANI PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- ANI PARAMETER MUST BE NULL or DIGITS
- ANI PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- ANI PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- CALLTYPE IS NOT FGB/FGBPS, ANI, OLI OR II CANNOT BE ENTERED
- CALLTYPE PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CALLTYPE PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CALLTYPE PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT
            ACTIVE
- CALLTYPE SHOULD BE FGB/FGBPS FOR DIG=950-XXXX
- CANNOT SPECIFY LRN DIGITS WITHOUT A DIG PARAMETER
- CANNOT SPECIFY PORTEDDN OR NONPORTED WITHOUT A DIG PARAMETER
- CC PARAMETER CANNOT BE ENTERED WHEN CALLTYPE=01M
- CC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- CIC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CIC PARAMETER MUST BE DIGITS
- CIC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CIC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- DIG CANNOT BE ENTERED WITH PSN
- DIG NOT ENTERED, CALLTYPE SHOULD BE FGB/FGBPS/FGDCT/01M
- DIG PARAMETER CANNOT BE ENTERED FOR CALLTYPE=FGDCT/01M
- FOR FGB CALLS, DIG MUST BE 950-XXXX OR NOT ENTERED
- FOR FGB CALLS, WHEN ANI=NULL THEN II=NULL HAS TO BE ENTERED
```

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- FOR FGB CALLS, WHEN ANI=NULL THEN OLI=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN II=NULL THEN ANI=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN OLI=NULL THEN ANI=NULL HAS TO BE ENTERED
- II PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- II PARAMETER NOT SUPPORTED – BASIC LDP FEATURE IS NOT ACTIVE
- II PARAMETER NOT SUPPORTED – VERIFY OFFICE FOR LDP IS NOT ACTIVE
- LRN PARAMETER NOT SUPPORTED – TEST QUERY FOR LRN FEATURE NOT PURCHASED
- LRN PARAMETER MUST BE 10 DIGITS
- NON-NUMBER DIGIT = Address digits contain characters other than 0-9, #, and *. These two special characters should be in quoted strings.
- NONPORTED KEYWORD NOT SUPPORTED – NP VERIFY OFFICE FOR LRNS NOT PURCHASED
- NULL ANI VALUE CAN ONLY BE USED FOR FGB CALLS = ANI=NULL, OLI/II=NULL can be entered only when CALLTYPE=FGB/FGBPS.
- OLI PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- OLI PARAMETER NOT SUPPORTED – BASIC LDP FEATURE IS NOT ACTIVE
- OLI PARAMETER NOT SUPPORTED – VERIFY OFFICE FOR LDP IS NOT ACTIVE
- ONLY SS7 TRUNK ORIGINATIONS CAN SPECIFY PORTEDDN PARAMETER
- PORTEDDN PARAMETER NOT SUPPORTED – NP VERIFY OFFICE FOR LRNS NOT PURCHASED
- PORTEDDN PARAMETER MUST BE 10 DIGITS
- PRESUBSC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- PRESUBSC PARAMETER NOT SUPPORTED – BASIC LDP FEATURE IS NOT ACTIVE
- PRESUBSC PARAMETER NOT SUPPORTED – VERIFY OFFICE FOR LDP IS NOT ACTIVE
- PSN CANNOT BE ENTERED WITH RPOA OR ICPI
- RPOA/ICPI MUST BE FOUR DIGIT BCD
- SAT PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- SAT PARAMETER NOT SUPPORTED – BASIC LDP IS NOT ACTIVE
- SAT PARAMETER NOT SUPPORTED – VERIFY OFFICE FOR LDP IS NOT ACTIVE
- SYSTEM ERROR = No terminal process could be created in the administrative module (AM). This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- TG CANNOT BE ENTERED WITH DN OR MLHG = The only valid origination combinations for packet (PKT) are DN, MLHG, DN and MLHG, or TG.
- TNS PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- TNS PARAMETER MUST BE DIGITS = The circuit code and carrier ID in TNS parameter must contain digits only.
- TNS PARAMETER NOT SUPPORTED – BASIC LDP FEATURE IS NOT ACTIVE
- TNS PARAMETER NOT SUPPORTED – VERIFY OFFICE FOR LDP IS NOT ACTIVE
- TNSC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- TNSC PARAMETER NOT SUPPORTED – BASIC LDP FEATURE IS NOT ACTIVE
- TNSC PARAMETER NOT SUPPORTED – VERIFY OFFICE FOR LDP IS NOT ACTIVE
- WBCHANNEL PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- WBCHANNEL PARAMETER NOT SUPPORTED – BASIC LDP FEATURE IS NOT ACTIVE
- WBCHANNEL PARAMETER NOT SUPPORTED – VERIFY OFFICE FOR LDP IS NOT ACTIVE
- WBRATE PARAMETER CANNOT BE ENTERED WITH DN OR MLHG

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- WBRATE PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- WBRATE PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE

PF = Printout follows. Followed by the appropriate output message. May also include:
- EVENT n = Request (identified by the number n) has been accepted and is being processed. The VFY:OFC output message may contain multiple segments. Each segment will contain this event number.

RL = Retry later. May also include:
- NO STACK SPACE = No stack space is available in the AM. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- NO SYSTEM RESOURCE = No process control blocks (PCBs) in the AM are available. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- UNABLE TO SEND MSG = The AM is unable to send messages. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- VERIFY IN PROGRESS = Another office verification is currently in progress. Only one verification can be done at a time.

5. REFERENCES

Output Message(s):

VFY:OFC

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-21x *Recent Change Menu Mode Text Interface*
235-118-24x *Recent Change Procedures*
235-118-24x *Recent Change Reference*
235-600-11x *Translations Data*
235-200-110 *Long Distance Platform*

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VFY:OFC-B

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests verification of office routing translations, used in call processing, from the originating line or trunk to the terminating line or trunk.

This input message supports routing for voice calls. This includes intra- and inter-office calls. This input message examines routing of voice calls including automatic route selection (ARS) voice calls.

For Format 1, this message supports verification of switch number portability (NP) routing information and recognition of LRNs in routing tables. This format also supports verification of provisioned routing information for long distance platform (LDP).

For Format 2, this message supports routing for circuit-switched data (CSD), except for certain features like automatic route selection (ARS). This includes intra- and inter-office CSD calls. This input message also supports verification of switch number portability (NP) routing information and recognition of LRNs in routing tables. This format also supports verification of provisioned routing information for long distance platform (LDP), with the ability to verify wideband data rates for LDP calls.

For Format 3, this input supports routing for packet-switched data (PSD) calls. This includes intra- and inter-office PSD calls.

2. FORMAT

```
[1]    VFY:OFC,[CSV],{DN=a|TG=b[-c]|MLHG=d-e|PORT=f-g}[,DIG=h]. . .
       . . .[,LRN=i|PORTEDDN=j|NONPORTED][,ANI=k][,II=l|OLI=m]. . .
       . . .[,CALLTYPE=n][,CIC=o][,TNS=p-q][,CC=r][,SAT][,TNSC=s]. . .
       . . .[,PRESUBSC];
       ____________________________________________________________

[2]    VFY:OFC,CSD,{DN=a|TG=b[-c]|MLHG=d-e},{DATARATE=t|WBRATE=u|. . .
       . . .WBCHANNEL=v}[,DIG=h][,LRN=i|PORTEDDN=j|NONPORTED][,ANI=k]. . .
       . . .[,II=l|OLI=m][,CALLTYPE=n][,CIC=o][,TNS=p-q][,CC=r][,SAT]. . .
       . . .[,TNSC=s][,PRESUBSC];
       ____________________________________________________________

[3]    VFY:OFC,PKT,{DN=a[,MLHG=d-e]|TG=b[-c]|MLHG=d-e}. . .
       . . .[,RPOA=w][,ICPI=x][,PSN=y][,DIG=h];
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`NONPORTED` = Presence of this key indicates that dig= value is known to be nonported.

`PRESUBSC` = Optional keyword to indicate if the calling party is presubscribed to the carrier associated with this call.

`SAT` = Optional keyword to indicate if the call has been routed using satellite. For SS7, SAT

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keyword is valid for all trunks. For MF, SAT keyword can only be used for MINT trunks.

a = Directory number (DN) of the line whose translations are to be verified.

b = Trunk group number of the trunk whose translations are to be verified. If the trunk group is a packet trunk [such as bearer independent call control (BICC) or session initiation protocol for telephony (SIP-T), do the following:

If the trunk group is:	Then:
A bearer independent call control (BICC) trunk group	Enter the BICC packet group. The packet group number can be found on RC/V View 5.71 (PACKET GROUP DEFINITION). If a BICC service group number is entered, an error will be returned.
A session initiation protocol for telephony (SIP-T) trunk group	Enter the SIP-T service group. The service group number is the same as the trunk group number and can be found on RC/V View 5.1 (TRUNK GROUP). If a SIP-T packet group number is entered, an error will be returned.

c = Optional member number of the trunk group whose translations are to be verified. If not specified, the first assigned member is used.

NOTE: This variable is only valid for circuit trunk group. For packet trunk group, BICC and SIP-T, an error will be returned. Refer to variable 'b'.

d = Group number of the multi-line hunt group line whose translations are to be verified.

e = Member number of the multi-line hunt group line whose translations are to be verified.

f = Module number (key to RLPORTLA) of the port whose translations are to be verified.

g = Port name (key to RLPORTLA) of the port whose translations are to be verified.

h = Optional address digits of call to be verified. This field should contain the LRN when PORTEDDN is also entered. Must be specified unless the call is from a manual or direct connect line, trunk or unless a packet switch number (PSN) is input for packet. The special characters "#" and "*" may be included along with numeric digits by surrounding the entire field with double quotation marks. If no special characters are entered, then the quotation marks are optional.

It is a general rule-of-thumb that whenever there is timing in a digit sequence that the customer can end by dialing a #, then that # must be included in the input digit string. This is normally the case with ambiguous or conflict sequences.

For example, in the case of using an IDP and dialing an escape to POTS dial code followed by ODP dial code (which starts with a # sign) and possibly more digits, a # sign needs to be inserted in the digit string between the escape to POTS code and the dial code. The customer dialing the following sequence 9 (action DPOTSA defined in IDP), #8 (ARSUSE code defined in ODP) and 5610000 (a DN) would enter this digit string in the input message as dig="9##85610000".

This is because this input message works off the digit string and cannot do critical interdigit timing as is done when the digits are being collected from a user. Entering the digit string above as "9#85610000" would result in the # being read as end of critical interdigit timing and the ODP would be left to incorrectly interpret the digits 85610000.

For LDP calls, the value of this field depends on the CALLTYPE input field (variable 'o').

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Please refer the tables under the explanation of CALLTYPE input field for valid values.

i = Optional ten digit location routing number.

j = Ported DN, generic address parameter (SS7 ISUP). Variable 'h' contains the LRN. This overrides the LNP query. No LNP query will be done when LRN is entered.

k = Optional automatic number identification (ANI). ANI is a required field for LDP LATA trunks. Valid value(s):

```
10 digit NPA-NXX-XXXX
3 digit NPA
NULL
```

The NULL value shall be valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS.

l = Optional ANI information digits (II) for a MF trunk. Valid value(s):

00 = Identified line with no special treatment.
01 = Operator number identified (multiparty).
02 = ANI failure.
06 = Hotel without room identification.
07 = Coinless, hospital, or inmate call.
08 = Interlata restricted.
10 = Test call.
20 = Automatic input/output dialing (AIOD) listed directory number sent.
23 = Identified line (coin or noncoin).
24 = Translated 800 call.
27 = Coin line.
34 = Operator handled.
52 = Outbound wide area transport (OUTWATS) line.
68 = Interlata restricted hotel line.
78 = Interlata restricted coinless line.
93 = Virtual private network line.
NULL = NULL input, valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS calls.

The default value for this field is 00.

m = Optional originating line information (OLI) for a CCS7 trunk. Valid value(s):

IDLINE = Identified line with no special treatment.
01 = Operator number identified (multiparty).
02 = ANI failure.
06 = Hotel without room identification.
07 = Coinless, hospital, or inmate call.
08 = Interlata restricted.
10 = Test call.
20 = Automatic input/output dialing (AIOD) listed directory number sent.
23 = Identified line (coin or noncoin).
24 = Translated 800 call.
27 = Coin line.
34 = Operator handled.

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52 = Outbound wide area transport (OUTWATS) line.
68 = Interlata restricted hotel line.
78 = Interlata restricted coinless line.
93 = Virtual private network line.
NULL = NULL input, valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS calls.

The default value for this field is IDLINE.

n = Optional calltype prefix of the dialed number. This also corresponds to the nature of number value for CCS7 signaling except for APN. If APN, it corresponds to either the nature of number value for CCS7 signaling or to the called party number information element type of number and numbering plan identification values for Q.931 signaling. Valid value(s):

1P = World zone 1, non-operator.
0P = World zone 1, zero plus.
011 = International, non-operator.
01P = International 01 plus (dialed as 01+CC+NN).
01M = International 01 minus.
DOM = Domestic (United States).
FGB = FGB (950-xxxx) calls from transition EAEO/AT.
FGBPS = FGB (950-xxxx) calls from public station during and after the transition.
FGDCT = Feature group D cutthrough calls.
APN = Action point numbers.

The default value for this field is DOM.

If calltype is 011, 01P, 1P or 0P only the national number digits have to be entered on the DIG field on input. No prefixes should be present on the DIG= field. The software will add appropriate prefixes based on CALLTYPE. The software will also add the country code from the input message for international calls.

If CALLTYPE is 01M, DIG= and CC= should not be entered on input. Software will analyze this as an international operator call based on CALLTYPE.

If CALLTYPE is DOM, user has to enter the actual digit string to be analyzed along with necessary prefixes. For example, if the user wants a DOMESTIC operator call, the digit string must have a 0 prefix on the DIG= field.

If CALLTYPE is APN, user has to enter the private digit string to be analyzed. This value only applies on an edge switch for CCS7 TTOLL and IC trunks and for Service Node EDSL trunks. The following tables do not apply when CALLTYPE is APN.

Mapping of CALLTYPE to CCS7 Nature of Address/Switch Prefixing

This table describes relationship between certain input parameter combinations and how the switch processes them for ISUP signaling.

Fields CALLTYPE, DIG, CC, TNS are VFY:OFC input fields.

CCS7 nature of address is the nature of address assigned to the call based on these inputs.

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Switch prefix is the prefix that the switch adds to the called party number based on these inputs.

CALLTYPE	DIG (to be input)	CC (to be input)	TNS (to be input)	CCS7 Nature of address	Switch prefix
011	National number	Required	Required	International number	011
01P	National number	Required	Required	International number, operator requested	01
01M	No digits	Not required	Required	No number present, operator requested	00
1P	National number	Not required	Required	National (significant) Number	NONE
0P	National number	Not required	Required	National number, operator requested	0
DOM	Switch does not prefix any digits. Actual digit string to be analyzed has to be input.	Not required	Not required	National (significant) Number	NONE
FGB, FGBPS	950xxxx	Not required	Not required	950+ type calls	NONE
FGDCT	Not required	Not required	Not required	Cutthru to carrier	NONE

Mapping of CALLTYPE to switch prefix for MF signaling

This table describes relationship between certain input parameter combinations and how the switch processes them for MF signaling.

Fields CALLTYPE, DIG, CC, CIC are VFY:OFC input fields.

Switch prefix is the prefix that the switch adds to the called party number based on these inputs.

CALLTYPE	DIG (to be input)	CC (to be input)	CIC (to be input)	Switch prefix
011	National number	Required	Required	011
01P	National number	Required	Required	01
01M	No digits	Not required	Required	Prefix 0 to "KP-0-ST" to become "KP-00-ST"
1P	National number	Not required	Required	NONE
0P	National number	Not required	Required	NONE
DOM	Switch does not prefix any digits. Actual digit string to be analyzed has to be input.	Not required	Not required	NONE
FGB, FGBPS	9500000 or Blank	Not required	Not required	NONE
FGDCT	Not required	Not required	Not required	NONE

o = Optional carrier identification code (CIC). CIC can be 3 digit(0-999) or 4 digit(0-9999).

p = Optional circuit code for transit network selector (TNS). Valid values are in the range 0-15. For incoming MINT trunk, any value specified for TNS is ignored.

q = Optional carrier code for transit network selector (TNS). Valid carrier code can be 3 digit (0-999) or 4 digit (0-9999). For incoming MINT trunk, any value specified for TNS is ignored.

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r = Optional 3 digit (0-999) country code for the called number.

s = Optional terminating network selection code (TNSC), relevant only for specified MINT trunks. Valid values are in the range 0-999. Default value is 1.

t = Narrowband data rate for CSD calls. Valid value(s):

56	= 56-kbps, unrestricted digital information, circuit-mode, rate adapted from 56-kbps.
64	= 64-kbps, unrestricted digital information, circuit-mode.
R64	= 64-kbps, restricted digital information, circuit-mode, rate adapted from 56-kbps.

u = Wideband data rate for CSD calls. Valid value(s):

384	= 384 kbps.
384_1536	= 384 or 1536 kbps.
1536	= 1536 kbps.

v = Wideband data rate channel for CSD calls. Wideband channel specifies the number of DS0s requested for the call. The number of DS0s is the information transfer rate multiplier value. This field will always be included for "multi-rate" calls. Valid values for this field are between 2 and 24.

w = Optional registered private operating agency, a four-digit data network interexchange carrier (DNIC) used with packet routing.

x = Optional interexchange carrier preselect indication, a four-digit DNIC used with packet routing.

y = Optional packet switch number, a number between 1 and 255, inclusive, used in internal protocol packet routing as the destination of the call.

4. SYSTEM RESPONSE

NG = No good. May also include:

- ANI PARAMETER MUST BE 3 or 10 DIGITS OR ENTERED AS NULL
- ANI PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- ANI PARAMETER MUST BE NULL or DIGITS
- ANI PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- ANI PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- CALLTYPE=APN CAN ONLY BE ENTERED WHEN DIG ENTERED
- CALLTYPE=APN NOT SUPPORTED - EDGE SWITCH FEATURE IS NOT ACTIVE
- CALLTYPE IS NOT FGB/FGBPS, ANI, OLI OR II CANNOT BE ENTERED
- CALLTYPE PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CALLTYPE PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CALLTYPE PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- CALLTYPE SHOULD BE FGB/FGBPS FOR DIG=950-XXXX
- CANNOT SPECIFY LRN DIGITS WITHOUT A DIG PARAMETER
- CANNOT SPECIFY PORTEDDN OR NONPORTED WITHOUT A DIG PARAMETER
- CC PARAMETER CANNOT BE ENTERED WHEN CALLTYPE=01M

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- CC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- CIC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CIC PARAMETER MUST BE DIGITS
- CIC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CIC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- DIG CANNOT BE ENTERED WITH PSN
- DIG NOT ENTERED, CALLTYPE SHOULD BE FGB/FGBPS/FGDCT/01M
- DIG PARAMETER CANNOT BE ENTERED FOR CALLTYPE=FGDCT/01M
- FOR FGB CALLS, DIG MUST BE 950-XXXX OR NOT ENTERED
- FOR FGB CALLS, WHEN ANI=NULL THEN II=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN ANI=NULL THEN OLI=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN II=NULL THEN ANI=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN OLI=NULL THEN ANI=NULL HAS TO BE ENTERED
- II PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- II PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- II PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- LRN PARAMETER NOT SUPPORTED - TEST QUERY FOR LRN FEATURE NOT PURCHASED
- LRN PARAMETER MUST BE 10 DIGITS
- NON-NUMBER DIGIT = Address digits contain characters other than 0-9, #, and *. These two special characters should be in quoted strings.
- NONPORTED KEYWORD NOT SUPPORTED - NP VERIFY OFFICE FOR LRNS NOT PURCHASED
- NULL ANI VALUE CAN ONLY BE USED FOR FGB CALLS = ANI=NULL, OLI/II=NULL can be entered only when CALLTYPE=FGB/FGBPS.
- OLI PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- OLI PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- OLI PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- ONLY SS7 TRUNK ORIGINATIONS CAN SPECIFY PORTEDDN PARAMETER
- PORTEDDN PARAMETER NOT SUPPORTED - NP VERIFY OFFICE FOR LRNS NOT PURCHASED
- PORTEDDN PARAMETER MUST BE 10 DIGITS
- PRESUBSC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- PRESUBSC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- PRESUBSC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- PSN CANNOT BE ENTERED WITH RPOA OR ICPI
- RPOA/ICPI MUST BE FOUR DIGIT BCD
- SAT PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- SAT PARAMETER NOT SUPPORTED - BASIC LDP IS NOT ACTIVE
- SAT PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- SYSTEM ERROR = No terminal process could be created in the administrative module (AM). This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- TG CANNOT BE ENTERED WITH DN OR MLHG = The only valid origination combinations for packet are DN, MLHG, DN and MLHG, or TG.
- TNS PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- TNS PARAMETER MUST BE DIGITS = The circuit code and carrier ID in TNS parameter must contain digits only.
- TNS PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE

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```
- TNS PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- TNSC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- TNSC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- TNSC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- WBCHANNEL PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- WBCHANNEL PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- WBCHANNEL PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT
ACTIVE
- WBRATE PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- WBRATE PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- WBRATE PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT
ACTIVE
```

`PF` = Printout follows. Followed by the appropriate output message. May also include:

- `EVENT n` = Request (identified by the number n) has been accepted and is being processed. The VFY:OFC output message may contain multiple segments. Each segment will contain this event number.

`RL` = Retry later. May also include:

- `NO STACK SPACE` = No stack space is available in the AM. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `NO SYSTEM RESOURCE` = No process control blocks (PCBs) in the AM are available. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `UNABLE TO SEND MSG` = The AM is unable to send messages. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `VERIFY IN PROGRESS` = Another office verification is currently in progress. Only one verification can be done at a time.

5. REFERENCES

Output Message(s):

`VFY:OFC`

Other Manual(s):
Where 'x' is the release-specific version of the document.

235-118-251 *Recent Change Menu Mode Text Interface*
235-118-25x *Recent Change Procedures*
235-118-25x *Recent Change Reference*
235-600-11x *Translations Data*
235-200-110 *Long Distance Platform*

VFY:PAUTH

Software Release: 5E15 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Format 1 verifies a person identity and the person's last login date and time. If the optional identity (IDENT) parameter is not specified, the whole person authority database (PAUTH) is printed showing all person identities and last login times.

Format 2 verifies person identities with the following characteristics:

Those that surpass a particular number of days since last logging in.

Those that surpass a particular number of days for a single login session.

Those that have never logged in.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
[1]    VFY:PAUTH[:IDENT="a"];

[2]    VFY:PAUTH:DORMANT=b;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the person to whom the associated date and time applies, in one to eight letters and/or digits.

`b` = Number of days considered dormant, an integer from 1 to 99999 inclusive.

4. SYSTEM RESPONSE

`NG` = No good. Valid value(s):
- `NO DORMANT USERS PRESENT` = The are no dormant person identities falling within the specified number of days.
- `NON-EXISTENT PERSON IDENTITY` = The given person identity does not exist in the person authority database.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The person authority database is inaccessible.

`PF` = Printout follows. Followed by VFY:PAUTH output message.

5. REFERENCES

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Input Message(s):

```
ADD:PAUTH
CHG:PAUTH
DEL:PAUTH
```

Output Message(s):

```
REPT:LOGIN
VFY:PAUTH
```

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*

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VFY:PCGRP

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Verifies the person-command group (PCGRP) relation for a given person identity (IDENT). All command groups and profiles assigned to IDENT are printed using the VFY:PCGRP output message.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
VFY:PCGRP:IDENT=a;
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the person in one to eight letters and/or digits.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NON-EXISTENT PERSON IDENTITY` = The given person identity does not exist in the person authority database.
- `NO AUTHORITY GROUPS ASSIGNED TO THIS PERSON` = No command groups or profiles have been assigned to this person identity; refer to the ADD:PCGRP and ADD:PROFL input messages.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The person authority database is inaccessible.

`PF` = Printout follows. Followed by output message VFY:PCGRP.

5. REFERENCES

Input Message(s):

```
ADD:PAUTH
ADD:PCGRP
ADD:PROFL
CHG:PAUTH
CHG:PROFL
DEL:PAUTH
DEL:PCGRP
DEL:PROFL
VFY:PAUTH
VFY:PROFL
```

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Input Appendix(es):

```
APP:COMMAND-GRP
```

Output Message(s):

```
VFY:PAUTH
VFY:PROFL
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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VFY:PROFL

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Verifies all profile names in the profile authority database (PROFL), or verifies the command groups associated with a given profile identity (IDENT) if the optional IDENT parameter is specified.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
VFY:PROFL[:IDENT=a];
```

3. EXPLANATION OF MESSAGE

`a` = Identity of the profile in one to eight letters and/or digits.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO AUTHORITY GROUPS ASSIGNED TO THIS PROFILE` = The profile does not have any command groups assigned to it.
- `NON-EXISTENT PROFILE IDENTITY` = The given profile identity does not exist in the profile authority database.
- `UNABLE TO ACCESS PROFILE ADMINISTRATION` = The profile authority database is inaccessible.

`PF` = Printout follows. Followed by the VFY:PROFL output message.

5. REFERENCES

Input Message(s):

```
ADD:PROFL
CHG:PROFL
DEL:PROFL
```

Input Appendix(es):

```
APP:COMMAND-GRP
```

Output Message(s):

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```
VFY:PROFL
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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VFY:RDTA-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests verification of an active remote digital test access (RDTA) session for a specific port under test (PUT). This request will verify that the ports involved in an RDTA session are connected as intended. The PUT is always used on the input request to identify the session for verification.

The verification begins by accessing the switching module (SM), where the PUT on the input request resides, to determine the actual physical connection. That information is then compared with the session data in the administrative module (AM) for consistency. If there is consistency, a VFY:RDTA success output message is sent in response to the input request to describe the connection. Otherwise, a VFY:RDTA failure message is sent describing the inconsistency or reason for failure. An OP:RDTA input message may be executed to determine a port name for possible verification or to access additional information on a particular RDTA session.

2. FORMAT

```
VFY:RDTA,a[,CH=u];
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Port identification. Valid value(s):

AIUEN=d-l-v-w
BST=b-c
DEN=d-e-f-g
DN=h
ILEN=d-i-j-k
LCEN=d-l-m-n
LCKEN=d-l-e^1-v-w
MLHG=o-p
INEN=d-x-j-k
NEN=d-x-y-z-a^1-b^1-c^1-d^1
OAPO=b
OPT=b-c
PKTDN=h
RTRS=q-r
TKGMN=s-t
PLTEN=d-f^1-g^1-h^1-i^1

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module number.

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`e` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1-A and channels 25-48 are associated with facility T1-B.

`h` = The DN. This parameter can only be used to identify channels associated with DSLs.

`i` = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`u` = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):

- `B1` = Channel B1.
- `B2` = Channel B2.
- `D` = D-channel (default).

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v = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

w = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

x = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

y = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

z = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

a[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

b[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

c[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

d[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

e[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

f[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

g[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

h[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

i[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by VFY:RDTA output message.

RL = Retry later. Valid value(s):

- FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

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5. REFERENCES

Input Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
```

Output Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110 *System Maintenance Requirements and Tools*

235-190-104 *ISDN Feature Description*

235-900-341 *National ISDN Basic Rate Interface Specification*

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VFY:RDTA-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests verification of an active remote digital test access (RDTA) session for a specific port under test (PUT). This request will verify that the ports involved in an RDTA session are connected as intended. The PUT is always used on the input request to identify the session for verification.

The verification begins by accessing the switching module (SM), where the PUT on the input request resides, to determine the actual physical connection. That information is then compared with the session data in the administrative module (AM) for consistency.

If there is consistency, a VFY:RDTA success output message is sent in response to the input request to describe the connection. Otherwise, a VFY:RDTA failure message is sent describing the inconsistency or reason for failure. An OP:RDTA input message may be executed to determine a port name for possible verification or to access additional information on a particular RDTA session.

2. FORMAT

```
VFY:RDTA,a[,CH=u];
```

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

`a` = Port identification. Valid value(s):

`AIUEN=d-l-v-w`
`BST=b-c`
`DEN=d-e-f-g`
`DN=h`
`ILEN=d-i-j-k`
`LCEN=d-l-m-n`
`LCKEN=d-l-e[1]-v-w`
`MLHG=o-p`
`INEN=d-x-j-k`
`NEN=d-x-y-z-a[1]-b[1]-c[1]-d[1]`
`OAPO=b`
`OPT=b-c`
`PKTDN=h`
`PLTEN=d-f[1]-g[1]-h[1]-i[1]`
`RTRS=q-r`
`TKGMN=s-t`
`OIUEN=d-j[1]-k[1]-z-a[1]-b[1]-c[1]-d[1]`

`b` = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

`c` = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f` = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g` = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1-A and channels 25-48 are associated with facility T1-B.

`h` = The DN. This parameter can only be used to identify channels associated with DSLs.

`i` = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j` = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k` = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`l` = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`m` = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`n` = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`o` = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`p` = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`q` = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`r` = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`s` = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`t` = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes

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section of the Input Messages manual.

`u` = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):
`B1` = Channel B1.
`B2` = Channel B2.
`D` = D-channel (default).

`v` = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`w` = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`x` = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`y` = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`z` = SONET termination equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`a`[1] = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b`[1] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c`[1] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d`[1] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e`[1] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f`[1] = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g`[1] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h`[1] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`i`[1] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`j`[1] = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`k`[1] = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of

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the Input Messages manual.

4. SYSTEM RESPONSE

`PF` = Printout follows. The request has been accepted. Followed by the VFY:RDTA output message.

`RL` = Retry later. May also include:
- `FAILED TO CREATE PROCESS` = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- `TOO MANY PROCESSES ACTIVE` = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
```

Output Message(s):

```
EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-190-104 *ISDN Feature Description*
235-900-341 *National ISDN Basic Rate Interface Specification*

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VFY:RTBM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests verification of the amount of Real Time Billing Memory (RTBM) and the amount currently in use. Verification can be given for all switching module (SM) types.

2. FORMAT

```
VFY:RTBM,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Request accepted. The VFY:RTBM output message will follow.
`RL` = Retry later. SM is isolated.

5. REFERENCES

Input Message(s):

```
CFR:RTBM
```

Output Message(s):

```
CFR:RTBM
VFY:RTBM
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-200-110 *Long Distance Platform*

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VFY:SAMEM

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

The VFY:SAMEM input message requests a report of the amount of memory configured for the Stand Alone Billing Memory (SABM) and the amount currently in use. This command can be used for all switching module (SM) types.

2. FORMAT

```
VFY:SAMEM,SM=a;
```

3. EXPLANATION OF MESSAGE

`a` = SM number.

4. SYSTEM RESPONSE

`PF` = Printout follows. Request accepted. The VFY:SAMEM output message will follow.

`RL` = Retry later. SM is isolated.

5. REFERENCES

Input Message(s):

```
CFR:SAMEM
```

Output Message(s):

```
CFR:SAMEM
VFY:SAMEM
```

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-190-103 *Business and Residence Feature Description*

235-190-115 *Local and Toll System Features*

235-190-130 *Local Area Signaling Services*

235-900-113 *Product Specification*

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VFY:TAPE

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of the readability of information on administrative module (AM) tapes and the consistency of corresponding hash sums.

System tapes are formatted as a series of headers, each followed by a number of data blocks (or records). A header contains information concerning the number of data blocks which follow it and the size of the blocks. The last header on the tape has no associated data records and is called the trailer header. Each header also contains a hash sum for the header itself and a hash sum for the total of all its corresponding records. Tape verification will check the header and data hash sums and make sure that all information is readable. On a digital audio tape (DAT), a single session or a single volume can be verified. A DAT may be formatted as a multi-volume tape; that is, it may contain headers and data blocks for more than one logical volume. One of these logical volumes or several logical volumes grouped together form a session, and several sessions may be found on a DAT.

2. FORMAT

```
VFY:TAPE,TD="a"[:RETRY=b][,SESS=c[,VOL=d]][,VERBOSE];
```

3. EXPLANATION OF MESSAGE

`a` = Special device file name of the tape drive where system tape to be verified is loaded. Refer to the ECD/SG manual.

`b` = Number of times to retry after tape read errors (default two). If a read attempt is unsuccessful, the tape will backspace and try to read again until either the attempt is successful or the retry count is exceeded.

`c` = Number of the session that is to be verified. This option is only valid for a multi-volume DAT. The range of session numbers is 1-9.

`d` = Number of the volume that is to be verified. This option is only valid for a multi-volume DAT. The range of volume numbers is 0-9.

If verbose option is specified, a line of output is produced for each header hash sum successfully read, and for each header or data record successfully read but required retries.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by VFY:TAPE output message.

5. REFERENCES

Output Message(s):

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```
VFY:TAPE
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-600-30x *ECD/SG*

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VFY:TAUTH

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Verifies all terminal identities in the terminal authority (TAUTH) database.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
VFY:TAUTH;
```

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

`NG` = No good. May also include:
- `NO TERMINAL AUTHORITY PRESENT` = No terminal authority exists; refer to the ADD:TAUTH input message.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The terminal authority database is inaccessible.

`PF` = Printout follows. Followed by the VFY:TAUTH output message.

5. REFERENCES

Input Message(s):

`ADD:TAUTH`
`DEL:TAUTH`

Output Message(s):

`VFY:TAUTH`

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VFY:TCGRP

Software Release: 5E15 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Verifies terminal-command group (TCGRP) relation for a given terminal (TERM) identity. All command groups and profiles assigned to TERM are printed using the VFY:TCGRP output message.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

```
VFY:TCGRP:TERM=a;
```

3. EXPLANATION OF MESSAGE

`a` = Terminal identity in four characters, starting with "tty".

4. SYSTEM RESPONSE

`NG` = No good.
- `INVALID TERMINAL IDENTITY` = The given terminal identity is either not four characters in length or does not start with "tty".
- `NO AUTHORITY GROUPS ASSIGNED TO THIS TERMINAL` = No command groups or profiles have been assigned to this terminal identity; refer to the ADD:TCGRP and ADD:PROFL input messages.
- `NON-EXISTENT TERMINAL IDENTITY` = The given terminal identity does not exist in the terminal authority database.
- `UNABLE TO ACCESS AUTHORITY ADMINISTRATION` = The terminal authority database is inaccessible.

`PF` = Printout follows. Followed by the VFY-TCGRP output message.

5. REFERENCES

Input Message(s):

```
ADD:PROFL
ADD:TAUTH
ADD:TCGRP
CHG:PROFL
DEL:PROFL
DEL:TAUTH
DEL:TCGRP
```

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```
VFY:PROFL
VFY:TAUTH
```

Input Appendix(es):

```
APP:COMMAND-GRP
```

Output Message(s):

```
VFY:PROFL
VFY:TAUTH
VFY:TCGRP
```

Other Manual(s):
235-105-210 *Routine Operations and Maintenance*

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83. WHEN

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WHEN:COND

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Starts a list of administrative module (AM) generic access package (GRASP) input messages that are to be performed when an external event breakpoint condition exists. The list of input messages is called and action list.

2. FORMAT

```
WHEN:COND=E;
```

3. EXPLANATION OF MESSAGE

An external event condition exists when the external event backplane signal becomes active.

Commands following a WHEN:COND input message are restricted to the following list. A maximum of five input messages is allowed in the action lists.

- `ALW:{UTIL|UTILFLAG|UMEM}`
- `INH:{UTIL|UTILFLAG|UMEM}`
- `DUMP:{ADDR|PMEM|REG|UVAR}`
- `COPY:` all forms of the input message, except process identification (PID) or PID source.
- `LOAD:` all forms of the input message.

Note: Refer to the message descriptions for the details of how the input messages are used within the WHEN input message.

The action list is terminated with the END:WHEN! input message.

`E` = Action list performed when an external event occurs.

4. SYSTEM RESPONSE

`IP` = In progress. Breakpoint condition is understood. The associated action list is expected to follow.

`NG` = No good. May also include:
- `TOO MANY BREAKPOINTS` = Only 20 breakpoints are permitted at one time.
- `UCERR` = The utility circuit is unavailable.

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RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

5. REFERENCES

Input Message(s):

```
ALW:UMEM
ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
COPY:ACTDISK
COPY:ADDR
COPY:BKDISK
COPY:DIFF-SRC-MHD
COPY:OOSDISK
COPY:PID
COPY:PTN-ALL
COPY:REG
COPY:SPDISK
COPY:TAPE-EMERDMP
COPY:TAPE-IN
COPY:TAPE-OUT
COPY:TAPE-TEST
COPY:UID
COPY:UVAR
DUMP:ADDR
DUMP:PMEM
DUMP:REG
DUMP:UVAR
END:WHEN
INH:UMEM
INH:UTIL
INH:UTILFLAG
INIT:UMEM
LOAD:ADDR
LOAD:DFC-PUMP
LOAD:DFC-RAM
LOAD:MHD
LOAD:PMEM
LOAD:REG
LOAD:UVAR
OP:UMEM
OP:UTIL
WHEN:UID
```

Output Message(s):

```
OP:UTIL
REPT:GRASP
WHEN:COND
```

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WHEN:PID

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a list of administrative module (AM) generic access package (GRASP) messages be executed when a specified breakpoint condition exists. The list of messages is called an action list.

Two types of breakpoint conditions are recognized: instruction- execution conditions and data-access conditions.

Format 1 is used when instruction-execution breakpoints are required.

Format 2 is used when data-access breakpoints are required.

Instruction execution is detected by specifying a virtual address within a process. When the instruction at that address is executed, the action list is executed. The first byte of the instruction opcode expected to be found at that address must be specified in the message. The breakpoint definition is rejected if this opcode does not agree with the opcode found at the virtual address.

Data access is indicated by specifying both the virtual address within the process and the type of access to be detected: read, write, and read/write.

A data access breakpoint will fire if the location specified is addressed with the correct access type. A data access breakpoint over a range of data locations will fire if any location in the range is addressed with the correct access tape.

Messages following the WHEN message are restricted to the following list. A maximum of five messages are allowed in action lists.

- `ALW:{UTIL|UTILFLAG|UMEM}`
- `COPY:` All forms of the message except process ID (PID) or utility ID (UID) source.
- `DUMP:{ADDR|PMEM|REG|UVAR}`
- `INH:{UTIL|UTILFLAG|UMEM}`
- `LOAD:` All forms of the message.

Note: Refer to the message description for the details of how the messages are used within the WHEN message.

The action list is terminated with the END:WHEN input message.

2. FORMAT

```
[1]    WHEN:PID=a,ADDR=b,OPC=e:EXC[,WORD]!

[2]    WHEN:PID=a,ADDR={b[&&c][,L=d]}:{R|W|RW}[,WORD]!
```

3. EXPLANATION OF MESSAGE

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`EXC` = Execute the action list when the breakpoint address is executed.

`R` = Trigger the action list when a read operation occurs on any part of the full memory word containing the specified byte address(es).

`RW` = Trigger the action list when either the R or the W condition is met.

`W` = Trigger the action list when a write operation occurs on any part of the full memory word containing the specified byte address(es).

`WORD` = Interpret the address and length fields as words. If this option is omitted, they are assumed to be byte values.

`a` = Process ID (PID) of the target process.

`b` = Virtual byte address for the breakpoint, or the beginning address of a range of addresses, in decimal, octal, or hexadecimal notation.

`c` = End address for a range of addresses.

`d` = Length of a range of addresses in bytes.

`e` = One-byte opcode expected to be found at the breakpoint address. The value is checked for software implemented breakpoints only.

4. SYSTEM RESPONSE

`IP` = In progress. Breakpoint condition is understood. The associated action list is expected to follow.

`NG` = No good. May also include:
- `BAD PID` = The process ID is for a process for which dumps are not permitted.
- `TOO MANY BREAKPOINTS` = Only 20 breakpoints are permitted at one time.
- `UCERR` = The utility circuit is unavailable.

`RL` = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

`?A` = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. May also include:
- `INVALID KEY WORD` = The message is not allowed in a WHEN action list. The END:WHEN input message is expected after the fifth action.

`?I` = General syntax error or:
- `RANGE ERROR (PID)` = Process ID is out of range.
- `RANGE ERROR (OPC)` = One byte opcode is expected.
- `INCONSISTENT DATA (ADDR)` = Address range must be in ascending order.

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5. REFERENCES

Input Message(s):

```
ALW:UMEM
ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
COPY:ACTDISK
COPY:ADDR
COPY:BKDISK
COPY:DIFF-SRC-MHD
COPY:OOSDISK
COPY:PID
COPY:PTN-ALL
COPY:REG
COPY:SPDISK
COPY:TAPE-EMERDMP
COPY:TAPE-IN
COPY:TAPE-OUT
COPY:TAPE-TEST
COPY:UID
COPY:UVAR
DUMP:ADDR
DUMP:PMEM
DUMP:REG
DUMP:UVAR
END:WHEN
INH:UMEM
INH:UTIL
INH:UTILFLAG
INIT:UMEM
LOAD:ADDR
LOAD:DFC-PUMP
LOAD:DFC-RAM
LOAD:MHD
LOAD:PMEM
LOAD:REG
LOAD:UVAR
OP:ST-PROC
OP:UMEM
OP:UTIL
WHEN:UID
```

Output Message(s):

```
OP:UTIL
WHEN:PID
REPT:GRASP
```

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WHEN:RUTIL

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a set of the given break point at the specified common network interface (CNI) ring node with the action-list provided.

The results of this operation are displayed. On a successful break point setup, the break point is automatically inhibited (disabled). The user must use the ALW:RUTIL or ALW:RUTILFLAG input request to enable this break point. In a given node, the maximum number of outstanding <action-list> items allowed is 25. The user is prompted for <action-list> items. Nested WHEN:RUTIL input requests are not allowed. Valid action-list input requests are:
ALW:RUTIL
ALW:RUTILFLAG
INH:RUTIL
INH:RUTILFLAG

The remaining input options are valid only within a WHEN action-list:
DUMP:ADDR
DUMP:REG
LOAD:BYTE
LOAD:REG
LOAD:SHORT
LOAD:WORD

The action-list is entered at the WHEN prompt after the WHEN input request is entered. The action-list is terminated by the END:WHEN input request.

WARNING: Incorrect use of this request may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

```
WHEN:RUTIL=a-b,AP:ADDR=c,OPC=d:EXC;. . .
 . . .[ALW:RUTIL=a-b,AP[:MHIT=p];]. . .
 . . .[ALW:RUTILFLAG=a-b,AP:BP=o[,MHIT=p];]. . .
 . . .[DUMP:ADDR=e,L=f;]. . .
 . . .[DUMP:REG=g;]. . .
 . . .[INH:RUTIL=a-b,AP;]. . .
 . . .[INH:RUTILFLAG=a-b,AP:BP=o;]. . .
 . . .[LOAD:BYTE=h:DATA,D=i;]. . .
 . . .[LOAD:REG=g:DATA,D=j;]. . .
 . . .[LOAD:SHORT=k:DATA,D=l;]. . .
```

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```
. . .[LOAD:WORD=m:DATA,D=n;]. . .
. . .END:WHEN;
```

3. EXPLANATION OF MESSAGE

`AP` = Attached processor.

`a` = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Address of the break point in hexadecimal. This must be the address of the first byte of a target processor instruction.

`d` = Opcode of text where break point is placed in hexadecimal.

`e` = Address to begin dump in hexadecimal.

`f` = Number of bytes to dump in decimal.

`g` = Name of the register to dump or load. Valid value(s):

68000 and 68030 CPU's	68030 CPU only:
A0, A1, A2, A3,	DFC, MMUSR, MSP,
A4, A5, A6, A7,	SFC, SRPH, SRPL,
D0, D1, D2, D3,	TC, TT0, TT1,
D4, D5, D6, D7,	VBR, VOFSET
ISP, SR, PC, TRADR,	CAAR, CACR, CCR, CRPH,
USP	CRPL

`h` = Address to load data in hexadecimal.

`i` = Data value to load in hexadecimal. The data provided must be a byte value.

`j` = Data value to load in hexadecimal. (a maximum of four bytes)

`k` = Address to load data in hexadecimal. The address provided is expected to be an even address.

`l` = Data value to load in hexadecimal. The data provided is expected to be a two-byte value.

`m` = Address to load data in hexadecimal. The address provided is expected to be on a four-byte boundary.

`n` = Data value to load in hexadecimal. The data provided is expected to be a four-byte value.

`o` = Specific break point to be allowed.

`p` = Maximum number of hits to be allowed for that break point. (If not specified MHIT is set to 10.)

4. SYSTEM RESPONSE

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`PF` = Printout follows. Followed by WHEN:RUTIL output requests.

5. REFERENCES

Input Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
```

Output Message(s):

```
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
REPT:RUTIL
WHEN:RUTIL
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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WHEN:UID

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a list of administrative module (AM) generic access package (GRASP) messages that are to be performed when a specified breakpoint condition exists be triggered.

The list of messages is called an action list. Two types of breakpoint conditions are recognized: instruction execution conditions and data access conditions. Format 1 is used when instruction-execution breakpoints are required. Format 2 is used when data-access breakpoints are required. Instruction execution is detected by specifying a virtual address within a process. When the instruction at that address is executed, the action list is executed. The first byte of the instruction opcode expected to be found at that address must be specified in the message. The breakpoint definition is rejected if this opcode does not agree with the opcode found at the virtual address. Data access is indicated by specifying both the virtual address within a process and the type of access to be detected: read, write, or read-write. A data access breakpoint will fire if the location specified is addressed with the correct access type. A data access breakpoint over a range of data locations will fire if any location in the range is addressed with the correct access type. Messages following the WHEN message are restricted to the following list. A maximum of five messages is allowed in action lists.

`ALW:{UTIL|UTILFLAG|UMEM}`
`COPY:` = All forms of the message, except PID or UID source.
`DUMP:{ADDR|PMEM|REG|UVAR}`
`INH:{UTIL|UTILFLAG|UMEM}`
`LOAD:` = All forms of the message.

Note: Refer to the message descriptions for the details of how the messages are used within the WHEN message.

The action list is terminated with the END:WHEN message.

2. FORMAT

```
[1]    WHEN:UID=a,ADDR=b,OPC=e:EXC[,WORD];

[2]    WHEN:UID=a,ADDR={b[&&c][,L=d]}:{R|W|RW}[,WORD];
```

3. EXPLANATION OF MESSAGE

`EXC` = Trigger the action list when the breakpoint address is executed.

`R` = Trigger the action list when a read operation occurs on any part of the full memory word containing the specified byte address(es).

`RW` = Trigger the action list when either the R or the W condition is met.

`W` = Trigger the action list when a write operation occurs on any part of the full memory word

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containing the specified byte address(es).

`WORD` = Interpret address and length fields as words. If this option is omitted, they are assumed to be byte values.

`a` = Utility ID (UID) number of target process.

`b` = Virtual byte address for the breakpoint or first address in a range of addresses. Specified in decimal, octal, or hexadecimal notation.

`c` = End address for a range of addresses.

`d` = Length of a range of addresses in bytes.

`e` = One byte opcode expected to be found at the breakpoint address. The value is only checked for software implemented breakpoints.

4. SYSTEM RESPONSE

`IP` = In progress. Breakpoint condition is understood. The associated action list is expected to follow.

`NG` = No good. May also include:
- `BAD UID` = The UID is for a process for which dumps are not permitted.
- `TOO MANY BREAKPOINTS` = Only 20 breakpoints are permitted at one time.
- `UCERR` = The utility circuit is unavailable.

`RL` = Retry later. The system is in an overload condition or completing the previous OP:UMEM or message.

`?A` = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. May also include:
- `INVALID KEYWORD` = The message is not allowed in a WHEN action list. END:WHEN expected after fifth action.

`?I` = General syntax error or:
- `INCONSISTENT DATA (ADDR)` = Address range must be in ascending order.
- `RANGE ERROR (OPC)` = One byte opcode is expected.
- `RANGE ERROR (UID)` = Utility ID is out of range.

5. REFERENCES

Input Message(s):

```
ALW:UMEM
ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
```

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```
COPY:ACTDISK
COPY:ADDR
COPY:BKDISK
COPY:DIFF-SRC-MHD
COPY:OOSDISK
COPY:PID
COPY:PTN-ALL
COPY:REG
COPY:SPDISK
COPY:TAPE-EMERDMP
COPY:TAPE-IN
COPY:TAPE-OUT
COPY:TAPE-TEST
COPY:UID
COPY:UVAR
DUMP:ADDR
DUMP:PMEM
DUMP:REG
DUMP:UVAR
END:WHEN
INH:UMEM
INH:UTIL
INH:UTILFLAG
INIT:UMEM
LOAD:ADDR
LOAD:DFC-PUMP
LOAD:DFC-RAM
LOAD:MHD
LOAD:PMEM
LOAD:REG
LOAD:UVAR
OP:UMEM
OP:UTIL
WHEN:PID
```

Output Message(s):

```
OP:UTIL
WHEN:UID
REPT:GRASP
```

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WHEN:UT-CMP

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified communications module processor (CMP).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified CMP. Format 3 requests that a generic utility timed WHEN be defined in the specified CMP. Format 4 defines a matching WHEN input message. The matching WHEN input message is only supported on CM Model 3 CMPs. Format 5 defines an instruction access address WHEN input message. The instruction access address WHEN input message is only supported on CM Model 3 CMPs. Format 6 defines a data address access WHEN input message. The data address access WHEN input message is only supported on CM Model 3 CMPs. All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint formats 1 & 2), or at an approximate time interval (timed format 3), when a complete match is made on the E-Bus (matching format 4), the microprocessor fetches the specified instruction (instruction address format 5), or microprocessor detects the specified access on the data address (data access format 6). This message may be used together with any of the other CMP generic utility input messages (refer to the input messages listed in the **REFERENCES** section). If this message is used together with other generic utility input messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

Note: Generic utility WHEN input messages may be removed from processors by various software maintenance/recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    WHEN:UT:CMP=a,{MATE|PRIM},ADDR=b,OPC=f
       [,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

[2]    WHEN:UT:CMP=a,{MATE|PRIM},{FUNC=c|SYMIDX=d}
       [,OFF=e,OPC=f][,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

[3]    WHEN:UT:CMP=a,{MATE|PRIM},TIME=g
       [,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

[4]    WHEN:UT:CMP=a,{MATE|PRIM},ADRS=j[,AMSK=k][,DATA=l][,DMSK=m][,DATAH=n][,DHM
       SK=o]
       [,OPER=p][,OMSK=q][,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

[5]    WHEN:UT:CMP=a,{MATE|PRIM},IABR=r
```

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```
       [,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

[6]    WHEN:UT:CMP=a,{MATE|PRIM},DABR=s
       [,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}
```

3. EXPLANATION OF MESSAGE

`FOREVER` = Allow the WHEN to be hit an unlimited number of times. If neither `HIT=h` nor `FOREVER` is specified, the hit count '`h`' defaults to 1.

`MATE` = Execute this input message in the standby CMP.

`NOPRINT` = Suppress the WHEN:UT-CMP output message.

`PRIM` = Execute this input message in the active CMP.

`a` = CMP number.

`b` = Absolute address at which to set the breakpoint.

`c` = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`d`' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`d` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`e` = Offset to be added to the function address in bytes (0 - 65535).

`f` = Two bytes of opcode that is expected at address '`b`' or within function '`c`' or '`d`' at offset '`e`'. Opcode that is expected at address '`b`' or within function '`c`' or '`d`' at offset '`e`'. The following opcode size rules must be used:

- If switch CM complex is Model 2 or earlier, the opcode must be a two byte opcode.
- If switch CM complex is Model 3, the opcode must be a four byte opcode.

`g` = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

`h` = Number of times the WHEN may be activated before being automatically inhibited. If neither `HIT=h` nor `FOREVER` is specified, the hit count '`h`' (1 - 32,767, default = 1).

`i` = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

`j` = Address that is to be compared on every bus cycle with the address actually on the bus. This value is used with the address mask 'k' to provide an address range for the comparison. The three lower address bits cannot be a range.

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`k` = Mask value for the address field 'j' A "1" bit is a don't care indication for that bit. A "0" bit indicates that the address comparison between the bus and the contents of the address field 'j' must match for that bit.

note: The last three bits are always 0.

`l` = Data low that is to be compared on every bus cycle with the data actually on the bus. This value is used with the data mask 'm'to provide a range of data values for the comparison.

`m` = Mask value for the data low field 'l'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the data comparison between the bus and the contents of the data field 'l' must match for that bit.

Note: The Data low is the bits 0-31 of a 64 bit data bus. Data sizes less than 32 bits must be specified in the correct byte lane for the matcher to function correctly.

`n` = Data high that is to be compared on every bus cycle with the data actually on the bus. This value is used with the data high mask 'o'to provide a range of data values for the comparison.

`o` = Mask value for the data field 'n'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the data comparison between the bus and the contents of the data field 'n' must match for that bit.

Note: The Data high are bits 32-63 of a 64 bit data bus. Data sizes less than 32 bits must be specified in the correct byte lane for the matcher to function correctly.

`p` = Type of bus operation that is to be compared on every bus cycle with the type of operation actually being performed on the bus. This value is used with the operation mask 'q' to provide a range of operations for the comparison.

Note: To set the WHEN for a basic read or write operation the OMSK field 'q' can be set to OMSK=h'ffffff7x, where x is the invert of the size of the operation (that is h'c = byte, h'a = short, h'6 = long word, h'e = double long word, and h'b = burst or 256 bit). The OPER field would need to be set to OPER=h'h'0000008x for a read and OPER=h'0000000x for a write and 'x' would match the size indicated in the invert of the OMSK field (that is h'3 = byte, h'5 = short, h'9 = long word, h'1 = double long word, and h'4 = burst). Refer to the global header regs/RGa74mat.h for further information.

`q` = Mask value for the operation field 'p'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the comparison between the operation being performed on the bus and the contents of the operation field 'p' must match for that bit.

`r` = The address of the instruction access to be trapped on.

Note: This value is passed directly to the instruction address breakpoint register. It contains the instruction address to be compared against bits 0-29, breakpoint enable bit (UT ALLOW forces this to active) bit 30, and the translation enable bit 31. Refer to the global header regs/RG750mis.h for further information.

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`s` = The address and the type of data access to be trapped on. The lowest 3 bits are zero regardless of the value provided.

Note: This value is passed directly to the data address breakpoint register. It contains the data address to be compared against bits 0-28, the translation enable bit 29, the data write enable bit 30, and the data read enable bit 31. To set the WHEN for a basic read operation the value should be h'xxxxxxxy where x is the address to match, and y = h'x101 (x being the last of the address, translation is enabled, data write turned off, and data read turned on). For a write operation the address needs to be defined and y = h'x110 can used. Refer to the global header regs/RG750mis.h for further information.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
```

Output Message(s):

```
WHEN:UT-CMP
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Other Manual(s):

System Maintenance Requirements and Tools
Audits

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WHEN:UT-MCTSI-PI

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet interface unit (PI).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified PI. Format 3 requests that a generic utility timed WHEN be defined in the specified PI. All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint), or at an approximate time interval (timed).

Note: This input message is only supported on PIs of the PI2 hardware type.

Note: Generic utility WHEN input messages may be removed from processors by various software maintenance/recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    WHEN:UT:MCTSI=a-b,PI,ADDR=c,OPC=g
       [,HIT=i][,FOREVER][,NOPRINT][,UTILFLAG=j]{!|;}

[2]    WHEN:UT:MCTSI=a-b,PI,{FUNC=d|SYMIDX=e}
       [,OFF=f,OPC=g][,HIT=i][,FOREVER][,NOPRINT][,UTILFLAG=j]{!|;}

[3]    WHEN:UT:MCTSI=a-b,PI,TIME=h
       [,HIT=i][,FOREVER][,NOPRINT][,UTILFLAG=j]{!|;}
```

3. EXPLANATION OF MESSAGE

`FOREVER` = Allow the WHEN to be activated an unlimited number of times. If neither HIT=i nor FOREVER is specified, the hit count '`i`' defaults to 1.

`NOPRINT` = Suppress the WHEN:UT-MCTSI output message.

`a` = Switching module (SM) number.

`b` = Side of the module controller/time-slot interchange (MCTSI).

`c` = Absolute address at which to set the breakpoint.

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`d` = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`e`' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`e` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`f` = Offset to be added to the function address in bytes (0 - 65535).

`g` = Two bytes of opcode that is expected at address '`c`' or within function '`d`' or '`e`' at offset '`f`'.

`h` = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

`i` = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=i nor FOREVER is specified, the hit count '`i`' (1 - 32,767, default is 1).

`j` = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
DUMP:UT-SYMID
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
```

Output Message(s):

```
WHEN:UT-MCTSI-PI
```

Input Appendix(es):

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```
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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WHEN:UT-PSUPH-A

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified PSUPH. Format 3 requests that a generic utility timed WHEN be defined in the specified PSUPH. Format 4 requests that a generic utility instruction access address WHEN be defined in the specified PSUPH. The instruction access address WHEN input message is only supported in a PSUPH of the PHV5 hardware type. Format 5 requests that a generic utility data address access WHEN be defined in the specified PSUPH. The data address access WHEN input message is only supported in a PSUPH of the PHV5 hardware type. All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint formats 1 & 2), or at an approximate time interval (timed format 3), the microprocessor fetches the specified instruction (instruction address format 4), or microprocessor detects the specified access on the data address (data access format 5).

Note: This input message is not supported on PSUPHs of the PH2 hardware type.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

Note: Generic utility WHEN input messages may be removed from processors by various software maintenance recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    WHEN:UT:PSUPH=a-b-c-d,ADDR=e,OPC=i
       [,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}

[2]    WHEN:UT:PSUPH=a-b-c-d,{FUNC=f|SYMIDX=g}
       [,OFF=h,OPC=i][,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}

[3]    WHEN:UT:PSUPH=a-b-c-d,TIME=j
       [,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
```

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```
[4]    WHEN:UT:PSUPH=a-b-c-d,IABR=m
       [,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}

[5]    WHEN:UT:PSUPH=a-b-c-d,DABR=n
       [,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
```

3. EXPLANATION OF MESSAGE

FOREVER = Allow the WHEN to be activated an unlimited number of times. If neither HIT=k nor FOREVER is specified, the hit count 'k' defaults to 1.

NOPRINT = Suppress the WHEN:UT-PSUPH output message.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Absolute address at which to set the breakpoint.

f = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Offset to be added to the function address in bytes (0 - 65535).

i = Opcode that is expected at address 'e' or within function 'f' or 'g' at offset 'h'. The following opcode size rules must be used:

- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the opcode must be a two byte opcode.
- If PSUPH is a PHV5 hardware type, the opcode must be a four byte opcode.

j = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

k = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=i nor FOREVER is specified, the hit count 'i' (default is 1).

l = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not

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unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

`m` = The address of the instruction access to be trapped on.

Note: This value is passed directly to the instruction address breakpoint register. It contains the instruction address to be compared against bits 0-29, breakpoint enable bit (UT ALLOW forces this to active) bit 30, and the translation enable bit 31. Refer to the global header regs/RGppcmis.h for further information.

`n` = The address and the type of data access to be trapped on. The lowest 3 bits are zero regardless of the value provided.

Note: This value is passed directly to the data address breakpoint register. It contains the data address to be compared against bits 0-28, the translation enable bit 29, the data write enable bit 30, and the data read enable bit 31. To set the WHEN for a basic read operation the value should be h'xxxxxxxy where x is the address to match, and y = h'w101 (w being the last of the address i.e bit 28, translation is enabled, data write turned off, and data read turned on). For a write operation the address needs to be defined and y = h'w110 can be used. Refer to the global header regs/RGppcmis.h for further information.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
```

Output Message(s):

```
WHEN:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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WHEN:UT-PSUPH-B

Software Release: 5E16(1) - 5E20(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified PSUPH.

Format 3 requests that a generic utility timed WHEN be defined in the specified PSUPH.

Format 4 requests that a generic utility instruction access address WHEN be defined in the specified PSUPH. The instruction access address WHEN input message is only supported in a PSUPH of the PHV5, PHV6, PH31, PHA2, or PHE2 hardware type.

Format 5 requests that a generic utility data address access WHEN be defined in the specified PSUPH. The data address access WHEN input message is only supported in a PSUPH of the PHV5, PHV6, PH31, PHA2, or PHE2 hardware type.

All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint formats 1 & 2), or at an approximate time interval (timed format 3), the microprocessor fetches the specified instruction (instruction address format 4), or microprocessor detects the specified access on the data address (data access format 5).

This input message is not supported on PSUPHs of the PH2 hardware type.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

Generic utility WHEN input messages may be removed from processors by various software maintenance recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    WHEN:UT:PSUPH=a-b-c-d,ADDR=e,OPC=i. . .
       . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________

[2]    WHEN:UT:PSUPH=a-b-c-d,{FUNC=f|SYMIDX=g}. . .
```

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```
       . . .[,OFF=h,OPC=i][,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________________

[3]    WHEN:UT:PSUPH=a-b-c-d,TIME=j. . .
       . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________________

[4]    WHEN:UT:PSUPH=a-b-c-d,IABR=m. . .
       . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________________

[5]    WHEN:UT:PSUPH=a-b-c-d,DABR=n. . .
       . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

FOREVER = Allow the WHEN to be activated an unlimited number of times. If neither HIT=k nor FOREVER is specified, the hit count 'k' defaults to 1.

NOPRINT = Suppress the WHEN:UT-PSUPH output message.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Absolute address at which to set the breakpoint.

f = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Offset to be added to the function address in bytes (0 - 65535).

i = Opcode that is expected at address 'e' or within function 'f' or 'g' at offset 'h'. The following opcode size rules must be used:

- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the opcode must be a two byte opcode.
- If PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type, the opcode must be a four byte opcode.

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`j` = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

`k` = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=i nor FOREVER is specified, the hit count '`i`' (default is 1).

`l` = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

`m` = The address of the instruction access to be trapped on.

This value is passed directly to the instruction address breakpoint register. It contains the instruction address to be compared against bits 0-29, breakpoint enable bit (UT ALLOW forces this to active) bit 30, and the translation enable bit 31. Refer to the global header regs/RGppcmis.h for further information.

`n` = The address and the type of data access to be trapped on. The lowest 3 bits are zero regardless of the value provided.

This value is passed directly to the data address breakpoint register. It contains the data address to be compared against bits 0-28, the translation enable bit 29, the data write enable bit 30, and the data read enable bit 31. To set the WHEN for a basic read operation the value should be h'xxxxxxxy where x is the address to match, and y = h'w101 (w being the last of the address such as, bit 28, translation is enabled, data write turned off, and data read turned on). For a write operation the address needs to be defined and y = h'w110 can be used. Refer to the global header regs/RGppcmis.h for further information.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
```

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Output Message(s):

```
WHEN:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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WHEN:UT-PSUPH-C

Software Release: 5E21(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified PSUPH.

Format 3 requests that a generic utility timed WHEN be defined in the specified PSUPH.

Format 4 requests that a generic utility instruction access address WHEN be defined in the specified PSUPH. The instruction access address WHEN input message is not supported in a PSUPH of the PH[3-4,6,22], PHA, or PHV[1-4] hardware types.

Format 5 requests that a generic utility data address access WHEN be defined in the specified PSUPH. The data address access WHEN input message is not supported in a PSUPH of the PH[3-4,6,22], PHA, or PHV[1-4] hardware types.

All Formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint Formats 1 and 2), or at an approximate time interval (timed Format 3), the microprocessor fetches the specified instruction (instruction address Format 4), or microprocessor detects the specified access on the data address (data access Format 5).

This input message is not supported on PSUPHs of the PH2 hardware type.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

Generic utility WHEN input messages may be removed from processors by various software maintenance recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    WHEN:UT:PSUPH=a-b-c-d,ADDR=e,OPC=i. . .
       . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________

[2]    WHEN:UT:PSUPH=a-b-c-d,{FUNC=f|SYMIDX=g}. . .
```

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```
       . . .[,OFF=h,OPC=i][,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________________

[3]    WHEN:UT:PSUPH=a-b-c-d,TIME=j. . .
       . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________________

[4]    WHEN:UT:PSUPH=a-b-c-d,IABR=m. . .
       . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________________

[5]    WHEN:UT:PSUPH=a-b-c-d,DABR=n. . .
       . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}
       ____________________________________________________________
```

3. EXPLANATION OF MESSAGE

`FOREVER` = Allow the WHEN to be activated an unlimited number of times. If neither HIT=k nor FOREVER is specified, the hit count '`k`' defaults to 1.

`NOPRINT` = Suppress the WHEN:UT-PSUPH output message.

`a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b` = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c` = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d` = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e` = Absolute address at which to set the breakpoint.

`f` = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number '`g`' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

`g` = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

`h` = Offset to be added to the function address in bytes (0 - 65535).

`i` = Opcode that is expected at address '`e`' or within function '`f`' or '`g`' at offset '`h`'. The following opcode size rules must be used:

- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the opcode must be a two byte opcode.
- If PSUPH is any other hardware type, the opcode must be a four byte opcode.

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`j` = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

`k` = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=i nor FOREVER is specified, the hit count '`i`' (default is 1).

`l` = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

`m` = The address of the instruction access to be trapped on.

This value is passed directly to the instruction address breakpoint register. It contains the instruction address to be compared against bits 0-29, breakpoint enable bit (UT ALLOW forces this to active) bit 30, and the translation enable bit 31. Refer to the global header regs/RGppcmis.h for further information.

`n` = The address and the type of data access to be trapped on. The lowest 3 bits are zero regardless of the value provided.

This value is passed directly to the data address breakpoint register. It contains the data address to be compared against bits 0-28, the translation enable bit 29, the data write enable bit 30, and the data read enable bit 31. To set the WHEN for a basic read operation the value should be h'xxxxxxxy where x is the address to match, and y = h'w101 (w being the last of the address such as, bit 28, translation is enabled, data write turned off, and data read turned on). For a write operation the address needs to be defined and y = h'w110 can be used. Refer to the global header regs/RGppcmis.h for further information.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
```

Output Message(s):

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```
WHEN:UT-PSUPH
```

Input Appendix(es):

```
APP:RANGES
APP:UT-IM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*
235-600-400 *Audits*

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WHEN:UT-SM-A

Software Release: 5E15 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified SM/SM-2000.

Format 3 requests that a generic utility timed WHEN be defined in the specified SM/SM-2000.

Format 4 defines a matching WHEN input message. The matching WHEN input message is only supported on SM-2000s.

All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint), at an approximate time interval (timed), or when a complete match is made on the bus service node (matching).

This message may be used together with any of the other SM/SM-2000 generic utility input messages (refer to the input messages listed in the **REFERENCES** section).

If this message is used together with other generic utility input messages, the END:UT-SM input message may be used to signal the end of the series of messages.

Generic utility WHEN input messages may be removed from processors by various software maintenance/ recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    WHEN:UT:SM=a,ADDR=b,OPC=f[,HIT=h][,FOREVER]. . .
       . . .[,NOPRINT][,UTILFLAG=i]{!|;}
       ____________________________________________________

[2]    WHEN:UT:SM=a,{FUNC=c|SYMIDX=d}[,OFF=e,OPC=f]. . .
       . . .[,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}
       ____________________________________________________

[3]    WHEN:UT:SM=a,TIME=g[,HIT=h][,FOREVER][,NOPRINT]. . .
       . . .[,UTILFLAG=i]{!|;}
       ____________________________________________________

[4]    WHEN:UT:SM=a,ADRS=j[,AMSK=k][,DATA=l][,DMSK=m]. . .
```

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```
. . .[,OPER=n][,OMSK=o][,HIT=h][,FOREVER][,NOPRINT]. . .
. . .[,UTILFLAG=i]{!|;}
```

3. EXPLANATION OF MESSAGE

FOREVER = Allow the WHEN to be hit an unlimited number of times. If neither HIT=h nor FOREVER is specified, the hit count 'h' defaults to one.

NOPRINT = Suppress the WHEN:UT-SM output message.

a = SM/SM-2000 number.

b = Absolute address at which to set the breakpoint.

c = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Offset to be added to the function address. The offsets, in bytes, can range from 0-65535.

f = Two bytes of opcode that is expected at address 'b' or within function 'c' or 'd' at offset 'e'.

g = Time interval, in milliseconds, at which the timer expires (Upper limit of 4,294,967,295 milliseconds).

h = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=h nor FOREVER is specified, the hit count 'h' defaults to one (upper limit of 32767).

i = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

j = Address that is to be compared on every bus cycle with the address actually on the bus. This value is used with the address mask 'k' to provide an address range for the comparison.

k = Mask value for the address field 'j'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the address comparison between the bus and the contents of the address field 'j' must match for that bit.

l = Data that is to be compared on every bus cycle with the data actually on the bus. This value is used with the data mask 'm' to provide a range of data values for the comparison.

m = Mask value for the data field 'l'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the data comparison between the bus and the contents of the data field 'l' must match for that bit.

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n = Type of bus operation that is to be compared on every bus cycle with the type of operation actually being performed on the bus. This value is used with the operation mask 'o' to provide a range of operations for the comparison.

To set the WHEN for a basic read or write operation the OMSK field 'o' can be set to OMSK=h'00x03000, where x is the size of the operation (that is 0 = long word, 1 = byte, 2 = short, and 3 = quad long word). The OPER field would need to be set to OPER=h'00x02000 for a write and OPER=h'00x01000 for a read and 'x' would match the size indicated in the OMSK field. Another example is a mask that looks at the size of the operation, the type of operation (read/write) and ignores MCTSI side switches. Use a mask of 'omsk=h'ffcfcffd'. Refer to the global header smim/SMmp_mthop.h for further information.

o = Mask value for the operation field 'n'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the comparison between the operation being performed on the bus and the contents of the operation field 'n' must match for that bit.

4. SYSTEM RESPONSE

Refer to APP:UT-IM-REASON appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
```

Output Message(s):

```
WHEN:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

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Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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WHEN:UT-SM-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified SM/SM-2000.

Format 3 requests that a generic utility timed WHEN be defined in the specified SM/SM-2000.

Format 4 defines a matching WHEN input message. The matching WHEN input message is only supported on SM-2000s.

Format 5 defines an instruction access address WHEN input message. The instruction access address WHEN input message is only supported on SMs with a software configuration of CNFG2KPPC.

Format 6 defines a data address access WHEN input message. The data address access WHEN input message is only supported on SMs with a software configuration of CNFG2KPPC.

All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint Formats 1 and 2), at an approximate time interval (timed Format 3), when a complete match is made on the bus service node (matching Format 4), when the microprocessor fetches the specified instruction (instruction address format 5), or when the microprocessor detects the specified access on the data address (data access Format 6).

This message may be used together with any of the other SM/SM-2000 generic utility input messages (refer to the **REFERENCES** section).

If this message is used together with other generic utility input messages, the END:UT-SM input message may be used to signal the end of the series of messages.

Generic utility WHEN input messages may be removed from processors by various software maintenance/ recovery activities (that is, pumps, initializations, audits, and so forth). During patch recovery operation, a switch command will delete all the when breakpoints and these breakpoints will have to be replanted if needed.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1]    WHEN:UT:SM=a,ADDR=b,OPC=f[,HIT=h][,FOREVER]. . .
       . . .[,NOPRINT][,UTILFLAG=i]{!|;}
```

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```
[2]    WHEN:UT:SM=a,{FUNC=c|SYMIDX=d}[,OFF=e,OPC=f]. . .
       . . .[,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}
```

```
[3]    WHEN:UT:SM=a,TIME=g[,HIT=h][,FOREVER][,NOPRINT]. . .
       . . .[,UTILFLAG=i]{!|;}
```

```
[4]    WHEN:UT:SM=a,ADRS=j[,AMSK=k][,DATA=l][,DMSK=m]. . .
       . . .[,OPER=n][,OMSK=o][,HIT=h][,FOREVER][,NOPRINT]. . .
       . . .[,UTILFLAG=i]{!|;}
```

```
[5]    WHEN:UT:SM=a,IABR=p[,HIT=h][,FOREVER]. . .
       . . .[,NOPRINT][,UTILFLAG=i]{!|;}
```

```
[6]    WHEN:UT:SM=a,DABR=q[,HIT=h][,FOREVER]. . .
       . . .[,NOPRINT][,UTILFLAG=i]{!|;}
```

3. EXPLANATION OF MESSAGE

FOREVER = Allow the WHEN to be hit an unlimited number of times. If neither HIT=h nor FOREVER is specified, the hit count 'h' defaults to one.

NOPRINT = Suppress the WHEN:UT-SM output message.

a = SM/SM-2000 number.

b = Absolute address at which to set the breakpoint.

c = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Offset to be added to the function address. The offsets, in bytes, can range from 0-65535.

f = Opcode that is expected at address 'b' or within function 'c' or 'd' at offset 'e'. Valid value(s):

If the SM Software Configuration is:	Then:
Not CNFG2KPPC	The opcode must be a two byte opcode.
CNFG2KPPC	The opcode must be a four byte opcode.

g = Time interval, in milliseconds, at which the timer expires (Upper limit of 4,294,967,295 milliseconds).

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`h` = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=h nor FOREVER is specified, the hit count '`h`' defaults to one (upper limit of 32767).

`i` = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

`j` = Address that is to be compared on every bus cycle with the address actually on the bus. This value is used with the address mask '`k`' to provide an address range for the comparison.

`k` = Mask value for the address field '`j`'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the address comparison between the bus and the contents of the address field '`j`' must match for that bit.

`l` = Data that is to be compared on every bus cycle with the data actually on the bus. This value is used with the data mask '`m`' to provide a range of data values for the comparison.

`m` = Mask value for the data field '`l`'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the data comparison between the bus and the contents of the data field '`l`' must match for that bit.

`n` = Type of bus operation that is to be compared on every bus cycle with the type of operation actually being performed on the bus. This value is used with the operation mask '`o`' to provide a range of operations for the comparison.

To set the WHEN for a basic read or write operation the OMSK field '`o`' can be set to OMSK=h'00x03000, where x is the size of the operation (that is 0 = long word, 1 = byte, 2 = short, and 3 = quad long word). The OPER field would need to be set to OPER=h'00x02000 for a write and OPER=h'00x01000 for a read and '`x`' would match the size indicated in the OMSK field. Another example is a mask that looks at the size of the operation, the type of operation (read/write) and ignores MCTSI side switches. Use a mask of '`omsk=h'ffcfcffd`'. Refer to the global header smim/SMmp_mthop.h for further information.

`o` = Mask value for the operation field '`n`'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the comparison between the operation being performed on the bus and the contents of the operation field '`n`' must match for that bit.

`p` = The address of the instruction access to be trapped on.

This value is passed directly to the instruction address breakpoint register. It contains the instruction address to be compared against bits 0-29, breakpoint enable bit (UT ALLOW forces this to active) bit 30, and the translation enable bit 31. Refer to the global header regs/RG750mis.h for further information.

`q` = The address and the type of data access to be trapped on. The lowest 3 bits are zero regardless of the value provided.

This value is passed directly to the data address breakpoint register. It contains the data address to be compared against bits 0-28, the translation enable bit 29, the data write enable bit 30, and the data read enable bit 31. To set the WHEN for a basic read operation the value

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should be `h'xxxxxxxy` where 'x' is the address to match, and `y = h'x101` ('x' being the last of the address, translation is enabled, data write turned off, and data read turned on). For a write operation the address needs to be defined and `y = h'x110` can used. Refer to the global header regs/RG750mis.h for further information.

4. SYSTEM RESPONSE

Refer to APP:UT-IM-REASON appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

Input Message(s):

```
ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
```

Output Message(s):

```
WHEN:UT-SM
```

Input Appendix(es):

```
APP:UT-IM-REASON
```

Output Appendix(es):

```
APP:UT-OM-REASON
```

Other Manual(s):
235-105-110 *System Maintenance Requirements and Tools*

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84. WRT

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WRT:AMADATA

Software Release: 5E15 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that billing data be collected from the switching modules (SMs) and the billing data in the administrative module be written to disk prior to generic retrofit.

The output of this input message is delayed until all of the daily SM billing data has been written to disk (10 - 15 seconds for every 10 equipped SMs in the office, depending on the amount of daily billing to be collected). This input message should not be used if the SMs are in isolation. Check the 141 MCC page to make sure no SM is listed as isolated before proceeding. If an SM is isolated, the CLR:ISOL-SM input message can be used to take it out of isolation. Since writes to disk are not possible when a write request is in progress, the disk writer is in initialization, or the disks are full. This input message should not be used under those circumstances. To determine if a write request is in progress, use the OP:AMA-STATUS input message to determine if one of the shared data segment (SDS) subsegments is nearly full and therefore about to be written to disk. The disk writer is in initialization if a boot is in progress or a version of the INIT:AM-FPI input message has just been invoked. To determine if the disks are 100% full, use the OP:AMA-DISK input message.

2. FORMAT

```
WRT:AMADATA;
```

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

`NA` = No acknowledgement. Automatic message accounting (AMA) option may be incorrect. If the AMA option is correct retry input message.

`PF` = Printout follows. Followed by a WRT:AMA-DATA output message.

5. REFERENCES

Input Message(s):

```
CLR:ISOL-SM
INIT:AM-FPI
OP:AMA-DISK
OP:AMA-STATUS
```

Output Message(s):

```
CLR:ISOL-SM
INIT:AM-LVL
```

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```
REPT:AMA-DISK-STO
REPT:AMA-STATUS
WRT:AMA-DATA
```

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-105-110 *System Maintenance Requirements and Tools*
235-105-210 *Routine Operations and Maintenance*
235-105-24x *Software Release Retrofit*
235-190-300 *Billing Features and Specifications*

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Table 1 : TYPES OF DIGITAL TESTS

Table 1 : TARGET DEFINITION

Table 2 : TABLE MAPPING TARGET TO ALLOWED UPD COMMANDS

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Table 1 : TYPES OF TRANSMISSION TESTS

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